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THE PALM TYPE COLLECTION (ARECACEAE) IN THE LIBERTY HYDE BAILEY HORTORIUM (BH)

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ABSTRACT

The nomenclatural and type status, and full bibliographic citation, are presented for the 474 types and two nomenclatural standards of palms (Arecaceae) housed at the Liberty Hyde Bailey Hortorium (BH) at Cornell University. Lectotypes, neotypes, epitypes, or step-2 designations are proposed for *Acrocomia belizensis*, *A. ierensis*, *Actinophloeus hospitus*, *Astrocaryum standleyanum*, *Brahea moorei*, *Butia capitata* var. *strictior*, *Calamus reinwardtii*, *Chamaedorea erumpens*, *Coccothrinax boxii*, *C. discreta*, *C. spissa*, *Copernicia holguinensis*, *Cyrtostachys elegans*, *Desmoncus mirandanus*, *D. prestoei*, *Geonoma plurinervia*, *Mascarena lagenicaulis*, *Oenocarpus panamanus*, *Palma argentata*, *Sabal allenii*, *S. glaucescens*, *S. morrisiana*, *S. peregrina*, *S. questaliana*, and *S. viatoris*.

KEY WORDS: nomenclature, typification, lectotypification

The purpose of this, the first in a series of irregular reports, is to document the type holdings housed at the Liberty Hyde Bailey Hortorium at Cornell University (BH). The present effort deals with members of the palm family (Arecaceae Bercht. & J. Presl), long a major area of study by Liberty Hyde Bailey (1858–1954), Harold Emory Moore, Jr. (1917–1980), Natalie Whitford Uhl (1919–), and a host of graduate students. Each specimen of the 474 types and two nomenclatural standards is confirmed as to its status, and a full bibliographic citation is provided. Disposition of duplicate type material, based on published reports, statements on type specimens deposited at BH, or determined from online resources, is noted. A list of references is also given providing information on where each taxon was published. Subsequent reports in this series will account for other families of vascular plants, all designed to augment the digitization of type material and its release online to the general public.

It is not unusual for a palm type to be composed of a series of items. At the Hortorium, Bailey (1933a, 1946) often placed segments of a single individual palm loosely arranged on a series of traditional herbarium sheets, with fragments in envelopes or packets. Occasionally, vials of seeds were also preserved. Sometimes, some or all of these items were placed in boxes (metal or cardboard); at BH it is not usual that a type is preserved in a combination of boxes, sheets, envelopes, packets and vials. Accordingly, the number of items (e.g., 1 box, 3 sheets, 1 envelope, 2 packets) is reported here.

Lectotypes, neotypes or epitypes, and some step-2 designations, are proposed here for *Acrocomia belizensis* L.H. Bailey, *Acrocomia ierensis* L.H. Bailey, *Actinophloeus hospitus* Burret, *Astrocaryum standleyanum* L.H. Bailey, *Brahea moorei* L.H. Bailey ex H.E. Moore, *Butia capitata* (Mart.) Becc. var. *strictior* L.H. Bailey, *Calamus reinwardtii* Mart., *Chamaedorea erumpens* H.E. Moore, *Coccothrinax boxii* L.H. Bailey, *Coccothrinax discreta* L.H. Bailey, *Coccothrinax spissa* L.H. Bailey, *Copernicia holguinensis* León, *Cyrtostachys elegans* Burret, *Desmoncus mirandanus* L.H. Bailey, *Desmoncus prestoei* L.H. Bailey, *Geonoma plurinervia* Burret, *Mascarena lagenicaulis* L.H.

Bailey, *Oenocarpus panamanus* L.H. Bailey, *Palma argentata* Jacq., *Sabal allenii* L.H. Bailey, *Sabal glaucescens* Drabble, *Sabal morrisiana* Bartlett ex L.H. Bailey, *Sabal peregrina* L.H. Bailey, *Sabal questaliana* L.H. Bailey, and *Sabal viatoris* L.H. Bailey.

Bernal G. et al. (Taxon 38: 98–107. 1989) listed isoneotypes at BH for the following entities, but the specimens have not been found: *Geonoma concinna* Burret (Bot. Jahrb. Syst. 63: 229. 1930, e.g., *R. Bernal G. & L.E. Tobón A. 1385*); *G. mucronata* Burret (Bot. Jahrb. Syst. 63: 171. 1930, e.g., *R. Bernal G. & L.E. Tobón A. 1383*), and *Wettinia hirsuta* Burret (Notizbl. Bot. Gart. Berlin-Dahlem 10: 941. 30 Mar 1930, e.g., *R. Bernal G. & L.E. Tobón A. 1381*). Bernal G. (Caldasia 17: 368. 1995) stated that isoneotypes for *Catoblastus microcarpus* Burret (Notizbl. Bot. Gart. Berlin-Dahlem 10: 931. 30 Mar 1930, e.g., *R. Bernal G. & G. Galeano 1367*) and *Catostigma kalbreyeri* Burret (Notizbl. Bot. Gart. Berlin-Dahlem 10: 935. 30 Mar 1930, e.g., *R. Bernal G. & L.E. Tobón A. 1397*) were deposited at BH, but we have no such specimens. Borchsenius and Bernal (Fl. Neotrop. 70: 76. 1996) designated neotypes for *Aiphanes parvifolia* Burret (Notizbl. Bot. Gart. Berlin-Dahlem. 11: 569. 1932, e.g., *R. Bernal G. et al. 1752*, isoneotype) and (l.c.: 46. 1996) for *Martinzia ernstii* Burnett (Notizbl. Bot. Gart. Berlin-Dahlem. 11: 327. 1932, e.g. *C. Vargas 18694*, neotype), but neither collection has been located at BH.

John Dransfield (in print or in personal communications) and others via their publications have indicated that the following specimens ought to be at BH, but as yet they have not been seen: *Calamus occidentalis* Witono & J. Dransf. (Kew Bull. 53: 747, fig. 1. 2 Nov 1998), *C. suaveolens* W.J. Baker & J. Dransf. (Kew Bull. 59: 69, fig. 1. 4 Aug 2004). *Dypsis fanjana* Beentje (in J. Dransfield & H. Beentje, Palms of Madagascar: 258, figs. 10 Nov 1995), *D. ramentacea* J. Dransf. (in J. Dransfield & H. Beentje, Palms of Madagascar: 411, figs. 10 Nov 1995), *Heterospathe brevicaulis* Fernando (Kew Bull. 45: 220, fig. 1. 6 Aug 1990), *H. califrons* Fernando (in E.S. Fernando & E.D. Sotalbo, *Palms* 45: 118, fig. 1–6. 31 May 2001), *H. dransfieldii* Fernando (Kew Bull. 45: 223, fig. 2. 6 Aug 1990), *H. scitula* Fernando (Kew Bull. 45: 228, fig. 3. 6 Aug 1990), *H. trispatha* Fernando (Kew Bull. 45: 231 fig. 4. 6 Aug 1990), *Pinanga arinasae* Witono (in J.R. Witono et al., Palms 46: 194. Dec 2002), *Salacca rupicola* J. Dransf. (in A.C. Jermy, Bot. J. Linn. Soc. 81: 36, fig. 12. 4 Nov 1980), and *Scheelea plowmanii* Glassman (Illinois Biol. Monogr. 59: 144, figs. 168, 200. 25 Jun 1999).

Acoelorraphe cookii Bartlett, Publ. Carnegie Inst. Wash. 461(2): 32. 10 Jul 1935. **TYPE**: **GUATEMALA**. Alta Vera Paz: between Santa Rosa and Salama, 29 May 1904, *O.F. Cook & C.B. Doyle 275*. Holotype: US; isotype: BH (1 sheet and 1 packet).

Acoelorraphe pinetorum Bartlett, Publ. Carnegie Inst. Wash. 461(2): 33. 10 Jul 1935. **TYPE**: **BRITISH HONDURAS**. Belize District: pine ridge north of aviation field, Belize, 28 Jan 1931, *H.H. Bartlett*. Holotype: MICH; isotype: BH (2 sheets and 1 packet).

Acrocomia antiguana L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 142, figs. 50–52. 19 Nov 1949. Type: **ANTIGUA**. Tremontania, 25 Feb 1949, *L.H. Bailey 609*. Holotype: BH (5 sheets).

Acrocomia belizensis L.H. Bailey, Gentes Herb. 4: 445, figs. 273–274. 30 Sep 1941. **TYPE**: **BELIZE**. El Cayo District: Pine Ridge, Duck Run, 17 Feb 1931, *H.H. Bartlett 11561*. Lectotype (**designated here**): MICH; isolectotype: BH (frag.). NOTE: Bailey did not indicate where the holotype was deposited. However, he retained fragments taken from one or more of the Bartlett sheets seen by Bailey on loan from MICH, and thus the MICH material is designated as the lectotype.

Acrocomia christopherensis L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 140, figs. 48–50. 19 Nov 1949. **TYPE**: **FEDERATION OF SAINT KITTS AND NEVIS**. Saint Kitts: Ottley's Plantation, Feb 1948, *L.H. Bailey 404*. Holotype: BH (2 sheets).

Acrocomia grenadana L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 144, figs. 50, 53. 19 Nov 1949. **TYPE: GRENADA**. Richmond Hill near St. George's, 6 Mar 1948, *L.H. Bailey* 430. Holotype: BH (2 sheets).

Acrocomia hospes L.H. Bailey, Gentes Herb. 4: 449, figs. 264, 267, 281–283. 30 Sep 1941. **TYPE: UNITED STATES. Florida**. Dade Co: Montgomery Palmetum, Coconut Grove, 8 Feb 1948, *L.H. Bailey 11561*. Holotype: BH (1 box with 2 packets and 3 sheets).

Acrocomia ierensis L.H. Bailey, Gentes Herb. 4: 473, figs. 269, 296–297. 30 Sep 1941. **LECTOTYPE (designated here): TRINIDAD AND TOBAGO**. Trinidad: Royal Botanic Garden and Experiment Station, Port-of-Spain, Feb–Mar 1921, *L.H. Bailey & Z. Bailey s.n.* Lectotype: BH (3 sheets [originally also 1, now missing box, fide note in herbarium by R.T. Clausen, 13 Aug 1964]). NOTE: Two collections were annotated by Bailey with the above name, the lectotype and a syntype (*T.E. Hazen 2076*, BH [frag.], NY). Neither collection was mentioned in the 1941 publication, but as both are original material, a lectotype is appropriate. The missing box apparently contained fruits but only photographs and negatives of a few of the fruit are extant.

Acrocomia karukerana L.H. Bailey, Gentes Herb. 4: 466, fig. 292. 30 Sep 1941. **TYPE: GUADELOUPE**. Basse Terre: near Roujol, near Petit-Bourg, 24 Oct 1938, *L.H. Bailey, Z. Bailey & A. Questel 16*. Holotype: BH (3 sheets). NOTE: Bailey did not mention Questel as a collector when the species was established, but this collector's name is on the labels.

Acrocomia panamensis L.H. Bailey, Gentes Herb. 4: 444, figs. 265, 272. 30 Sep 1941. **TYPE: PANAMA**. Canal Zone: near Panama City, 11 Jul 1931, *L.H. Bailey & Z. Bailey* 552. Holotype: BH (3 sheets).

Acrocomia quisqueyana L.H. Bailey, Gentes Herb. 4: 471, figs. 255, 268, 294. 30 Sep 1941. **TYPE: HAITI**. Bassin Bleu, near Port-de-Paix, 22 Mar 1937, *L.H. Bailey 139*. Holotype: BH (3 sheets).

Acrocomia subinermis León ex L.H. Bailey, Gentes Herb. 4: 474, fig. 274. 30 Sep 1941. **TYPE: CUBA**. La Habana: between Cruz de Piedra and Guatoa, Nov 1939, *H. León & J.P. Carabia 17425*. Holotype: BH (2 sheets and 1 envelope).

Acrocomia viegasii L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 139, figs. 45–47. 19 Nov 1949. **TYPE: BRAZIL**. São Paulo: Campinas, in open fields at Pitangueiras, 2 Jul 1943, *A.P. Viegas & C. Teixeira 7143*. Holotype: BH (1 sheet and 2 envelopes).

Actinokentia huerlimannii H.E. Moore, Gentes Herb. 12: 17, fig. 1. 29 Feb 1980. **TYPE: NEW CALEDONIA**. Sud: vallée de la haute Ni, 25 Jun 1951, *H. Gürlimann 1712*. Holotype: BH (1 box and 2 envelopes).

Actinophloeus hospitus Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 206. 10 Jul 1931. **NEOTYPE (designated here): INDONESIA**. West Java: Bogor Botanical Garden, Bogor, Apr–Mai 1936, *C.X. Furtado 31137*. Neotype: BH (1 sheet and 1 packet). NOTE: The original 1929 specimen was destroyed. The neotype is of material obtained from exactly the same tree from which type original type was taken as stated by Furtado who wrote on the label "Holotype plant".

Aiphanes aculeata Willd., Samml. Deutsch. Abh. Königl. Akad. Wiss. Berlin 1803: 251. 1806. **NEOTYPE** (designated by F. Borchsenius & Bernal G., Fl. Neotrop. Monogr. 70: 46. 16 Dec 1996): **VENEZUELA**. Miranda: Agua Bendíta, a tributary to Río Aricagua, 2.3 km east of Pueblo Seco, 4.6 km east of Aricagua, 24–25 Mar 1973, *J.A. Steyermark & V.C. Espinoza 106916*. Neotype: BH (1 box and 1 packet); isoneotypes: NY, VEN.

Aiphanes chocoensis A.H. Gentry, Ann. Missouri Bot. Garden 68: 112. 17 Nov 1981. **TYPE: COLOMBIA**. Chocó: Rio Mutatá, tributary of Rio El Valle between the base of Alto del Buey and mouth of river, 9 Aug 1976, *A.H. Gentry & M. Fallen 17450*. Holotype: COL; isotypes: BH (1 sheet); MO.

Aiphanes concinna H.E. Moore, Gentes Herb. 8: 223, fig. 91. 30 Nov 1951. **TYPE: COLOMBIA.** Cundinamarca: near Fusagasaga, 12 Oct 1946, *M.B. Foster & R. Foster 1870*. Holotype: BH (2 sheets); isotype: A.

Aiphanes echinocarpa Dugand, Caldasia 2: 455, figs. [p. 456, 458]. 1 Apr 1944. **TYPE: COLOMBIA.** Antioquia: between Sonsón and Nariño, near Rionegrito, 11 Dec 1943, *L. Uribe-Uribe 683*. Holotype: COL; isotypes: BH (2 sheets), F, NY.

Aiphanes fosteriorum H.E. Moore, Gentes Herb. 8: 225, fig. 92. 30 Nov 1951. **TYPE: COLOMBIA.** Nariño: Altaquer, 10 Nov 1946, *M.B. Foster & R. Foster 2117*. Holotype: BH (2 sheets and 1 envelope); isotypes: A, COL.

Aiphanes fuscopubens L.H. Bailey, Gentes Herb. 6: 209, fig. 107. 4 Aug 1943. **TYPE: PANAMA.** Panamá: above Campana, 1 Jul 1939, *P.H. Allen 1870*. Lectotype (designated by F. Borchsenius & R. Bernal G., Fl. Neotrop. Monogr. 70: 62. 16 Dec 1996, as "holotype"): MO; isolectotypes: BH (1 sheet), BM. NOTE: Bailey did not indicate where the holotype was deposited.

Aiphanes gelatinosa H.E. Moore, Gentes Herb. 8: 227, fig. 93. 30 Nov 1951. **TYPE: COLOMBIA.** Nariño: beyond Junín, 14 Nov 1946, *M.B. Foster & R. Foster 2164*. Holotype: BH (2 sheets and 1 envelope); isotypes: A, COL.

Aiphanes hirsuta Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 572. 30 Mar 1932. **LECTOTYPE** (designated by R. Bernal G. et al., Taxon 38: 99. 1989): **COLOMBIA.** Antioquia: 10-11 km east of Amalfi on road to Medellin, 25 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1396*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope), FTG, HUA, K, MO, NY.

Aiphanes kalbreyeri Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 572. 30 Mar 1932. **NEOTYPE** (designated by R. Bernal G. et al., Taxon 38: 99. 1989): **COLOMBIA.** Antioquia: la quebrada La Vivora ["La Vibora"], 6 km east of village, 24 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1393*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope), FTG, HUA, K, NY.

Aiphanes luciana L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 166, figs. 65. 19 Nov 1949. **TYPE: SAINT LUCIA.** Castries Quarter: rainforest of Barre de L'isle, *L.H. Bailey 440*. Holotype: BH (2 sheets); isotype: BM.

Aiphanes pachyclada Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 574. 30 Mar 1932. **NEOTYPE** (designated by R. Bernal G. et al., Taxon 38: 100. 1989): **COLOMBIA.** Antioquia: 8 km east of San Roque on the road to Santo Domingo, 22 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1392*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope), HUA, K, NY.

Aiphanes vincentiana L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 170, figs. 68. 19 Nov 1949. **TYPE: SAINT VINCENT AND THE GRENADINES. ST. VINCENT.** Cumberland Valley, *J. Beard 230*. Holotype: BH (1 box).

Alsmithia longipes H.E. Moore in H.E. Moore et al., Principes 26: 124. 2 Feb 1982. **TYPE: FIJI.** Taveuni: Ridge from Wainbau River to crest of mountains on eastern side of Taveuni beyond Lavena Village, 25 Mar 1980, *H.E. Moore, Jr., R.H. Phillips & S. Vodonaivalu 10545*. Holotype: BH (1 box and 1 packet); isotypes: K. P, SUVA, US.

Areca borneensis Becc., Malesia 1: 22. Apr 1877. **TYPE: MALAYSIA. BORNEO.** Sarawak: on the banks of the Rejang, 1865–1868. *O. Beccari 3923*. Holotype: FI; isotypes: BH (frag.), K.

Areca brachypoda J. Dransf., Kew Bull. 39: 8, fig. 3. 15 May 1984. **TYPE: MALAYSIA. BORNEO.** Sarawak: Lundu, G. Pueh Forest Reserve, 7 May 1981, *J. Dransfield et al. 6011*. Holotype: K; isotypes: BH (1 sheet), BO, L, PNH, SAN, SAR.

Areca coronata Blume ex Mart., Hist. Nat. Palm.: 3: 179. 23 Sep 1838. **SYNTYPE: INDONESIA.** Without location, 1836, *C.L. von Blume s.n.* Syntypes: BH (frag.), L, P (frag.). NOTE: Martius indicated that the plant was found in "Java" and was known from collections by Kuhl, van Hasselt, and Blume. If a lectotype has been established, we have not discovered who might have done this. The BH fragment was taken from the Blume sheet at L.

Areca dayung J. Dransf. in A.C. Jermy, Bot. J. Linn. Soc. 81: 30, figs. 9–10. 4 Nov 1980. **TYPE: MALAYSIA. BORNEO**. Sarawak: Bintulu, Bukit Nyabau, 13 Apr 1968, *J. Dransfield 785*. Holotype: K; isotype: BH (2 sheets).

Areca klingkangensis J. Dransf., Kew Bull. 39: 15, fig. 6. 15 May 1984. **TYPE: MALAYSIA. BORNEO**. Sarawak: summit ridge of G. Gaharu, Sabal Tapang Forest Reserve, 20 May 1981, *J. Dransfield et al. 6103*. Holotype: K; isotypes: BH (1 sheet), SAR.

Arenga retroflorescens H.E. Moore & Meijer, Principes 9: 100, figs. 86–88. 11 Aug 1965. **TYPE: MALAYSIA. BORNEO**. Sarawak: Sepilok Forest Reserve near Sandakan Bay, 15 miles west of Sandahan, along Jalan Uchung Chanchung, 15 Jan 1964. Holotype: BH (1 sheet and 1 envelope); isotype: K, SAN, US.

Aristeyera ramosa H.E. Moore, J. Arnold Arbor. 48: 144, figs. 1–2. 16 Apr 1967. **TYPE: VENEZUELA**. Estado Sucre: Cerro Espejo, entre Manacal y Pauji, arriba de Mundo Nuevo, arriba de Río Seco de Irapa, 6 Aug 1966, *J.A. Steyermark & M. Rabe 96088*. Holotype: BH (2 sheets and 1 envelope).

Aristeyera spicata H.E. Moore, J. Arnold Arbor. 47: 5, figs. 1–3. 14 Jan 1966. **TYPE: VENEZUELA**. Estado Miranda: Parque Nacional de Guatopo, along Río Santa Cruz between Santa Teresa and Altagracia de Orituco, 14.5 mi from Los Alpes, 12 km from Rancheria Mi Querencia, 23 Nov 1961, *J.A. Steyermark 90010*. Holotype: BH (1 sheet).

Asterogyne yaracuyense A.J. Hend. & Steyerm., Brittonia 38: 309, fig. 1. 30 Dec 1986. **TYPE: VENEZUELA**. Yaracuy: Cerro la Chapa, selva nublada al norte de Nirgua, 9–10 Nov 1967, *J.A. Steyermark, G. Bunting & G. Wessels-Boer 100311*. Holotype: VEN; isotype: BH (1 sheet and 1 envelope).

Astrocaryum standleyanum L.H. Bailey, Gentes Herb. 3: 88, figs. 67–70. 15 Mar 1933. **LECTOTYPE (designated here): PANAMA**. Canal Zone: Barro Colorado Island, 16 Jun 1931, *L.H. Bailey & Z. Bailey 211*. Lectotype: BH (7 sheets); isotype: COL (frag.). NOTE: Two collections were annotated by Bailey with this name, the lectotype and a syntype (*L.H. Bailey & Z. Bailey 211a*, BH, 5 sheets). Neither collection was mentioned in the 1933 publication, but as both are original material, a lectotype (rather than a neotype) is appropriate in this case.

Astrocaryum triandrum Galeano, R. Bernal & F. Kahn, Candollea 43: 279, figs. 1–3. 20 Aug 1988. **TYPE: COLOMBIA**. Antioquia: región del río La Miel, 5 km al norte de San Miguel, 28 Jun 1986, *R. Bernal G., G. Galeano & V. Jaimes 1063*. Holotype: COL; isotypes: AAU, B, BH (1 sheet and 1 envelope), CAY, FAUC, FTG, G, HUA, K, NY, US.

Attalea allenii H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 191, fig. 82. 30 Nov 1951. **TYPE: PANAMA**. Colón: Rio Viejo, near Puerto Pilon, 2 Feb 1947, *P.H. Allen 4103*. Holotype: MO; isotype: BH (1 envelope).

Attalea septuagenata Dugand, Mutisia 18: 3. 10 Aug 1953. **TYPE: COLUMBIA**. Amazonas: Río Miritiparaná, Caño Guacayá, 2–8 Mar 1952, *R.E. Schultes & I. Cabrera 15796*. Holotype: COL; isotype: BH (1 box with 1 large envelope and 2 small envelope, and 1 packet).

Bactris albonotata L.H. Bailey, Gentes Herb. 7: 396, fig. 171. 27 Dec 1947. **LECTOTYPE** (designated by A. Henderson, Fl. Neotrop. Monogr. 70: 108. 2000, as "holotype"): **TRINIDAD AND TOBAGO**. Trinidad: Arena, San Rafael, 7 Mar 1946, *L.H. Bailey 168*. Lectotype: BH (2 sheets, 1 envelope). NOTE: Bailey cited both *168*, a cultivated specimen gathered in the Botanical Garden at Port-of-Spain, and *L.H. Bailey 685* (BH; 5 sheets), a syntype, gathered in March of 1922. In addition, the original illustrations were based in large part on the syntype.

Bactris alleniana L.H. Bailey, Gentes Herb. 4: 228, fig. 118. 4 Aug 1943. **TYPE: PANAMA. Colón**. Hills north of El Valle de Anton, 2 Jul 1942, *P.H. Allen 2574*. Lectotype, designated by A. Henderson, Fl. Neotrop. Monogr. 70: 77. 2000, as "holotype"): MO; isolectotype: BH (2 sheets and 1 envelope), BM. NOTE: Bailey did not indicate where the holotype was deposited.

Bactris aureodrupa L.H. Bailey, Gentes Herb. 6: 232, fig. 121. 4 Aug 1943. **TYPE: PANAMA. Colón**. Hills north of El Valle de Anton, 23 Jun 1940, *P.H. Allen 2150*. Holotype: BH (1 sheet and 1 envelope).

Bactris baileyana H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 155. 19 Nov 1949. **TYPE: PANAMA. Chiriqui**. Cerro Galera Chorcha, near Gualaca, 1 Aug 1947, *P.H. Allen 5023*. Holotype: MO; isotype: BH (2 sheets and 1 envelope).

Bactris barronis L.H. Bailey, Gentes Herb. 3: 101, figs. 78–80. 15 Mar 1933. **LECTOTYPE** (designated by G. de Nevers et al., Proc. Calif. Acad. Sci., ser. 4, 49: 174. 1996, as "holotype"): **PANAMA. Canal Zone**. Barro Colorado Island, 16 Jun 1931, *L.H. Bailey & Z. Bailey 503*. Lectotype: BH, 4 sheets. NOTE: Bailey did not cite a type but had two gatherings that qualify as original material, one being the lectotype. Unmentioned by de Nevers et al. was *L.H. Bailey & Z. Bailey 503a* (BH, 3 sheets), a syntype, although these authors likely included it in their concept of the "holotype" in 1996.

Bactris beata L.H. Bailey, Gentes Herb. 7: 399, figs. 172–173. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Mayaro, Mar 1922, *L.H. Bailey 667*. Holotype: BH (4 sheets).

Bactris broadwayi L.H. Bailey, Gentes Herb. 7: 388, figs. 164–165. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: MacNair, 24 Jan 1946, *L.H. Bailey 112*. Holotype: BH (2 sheets).

Bactris cateri L.H. Bailey, Gentes Herb. 7: 396, fig. 170. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Arena, San Rafael, 17 Mar 1946, *L.H. Bailey 100*. Holotype: BH (2 sheets and 1 envelope).

Bactris circularis L.H. Bailey, Gentes Herb. 7: 388, fig. 163. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Melajo: St. Andrews, 26 Feb 1946, *L.H. Bailey 158*. Holotype: BH (2 sheets).

Bactris coloniata L.H. Bailey, Gentes Herb. 3: 106, figs. 82–84. 15 Mar 1933. **LECTOTYPE** (designated by G. de Nevers et al., Proc. Calif. Acad. Sci., ser. 4, 49: 176. 1996): **PANAMA. Canal Zone**. Barro Colorado Island, 16 Jun 1931, *L.H. Bailey & Z. Bailey 77*. Lectotype: BH (1 sheet). NOTE: Bailey did not cite a type but had two gatherings that qualify as original material. The above was designated as the lectotype, and while available it is unfortunate for this number is represented by a single sheet. Unmentioned by de Nevers et al. was *L.H. Bailey & Z. Bailey 77a* (BH, 3 sheets), a syntype, although these authors likely included it in their concept of the "holotype" in 1996.

Bactris coloradonis L.H. Bailey, Gentes Herb. 3: 104, fig. 81. 15 Mar 1933. **LECTOTYPE** (designated by G. de Nevers et al., Proc. Calif. Acad. Sci., ser. 4, 49: 178. 1996): **PANAMA. Canal Zone**. Barro Colorado Island, 6 Jul 1931, *L.H. Bailey & Z. Bailey 502*. Lectotype: BH (4 sheets). NOTE: Bailey did not cite a type but had two gatherings that qualify as original material. The above subsequently was designated as the lectotype. Unmentioned by de Nevers et al. was *L.H. Bailey & Z. Bailey 502a* (BH, 3 sheets), a syntype, although they likely included it in their concept of the "holotype" in 1996.

Bactris demerarana L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 163, figs. 62–64. 19 Nov 1949. **TYPE: GUYANA**. Demerara: along Demerara River near Atkinson Field, beyond Craig Village from Georgetown, 20 Feb 1948, *L.H. Bailey 419* Holotype: BH (1 sheet and 1 envelope).

Bactris devia H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 157, fig. 60. 19 Nov 1949. **TYPE: COLOMBIA**. Vaupés: Río Cuduyari, 20 Jan 1944, *P.H. Allen 3255*. Holotype: MO; isotype: BH (1 sheet). NOTE: Contrary to what is stated by A. Henderson (Fl. Neotrop. Monogr. 70: 26. 2000), the holotype was declared by Moore to be at MO, not BH.

Bactris divisicupula L.H. Bailey, Gentes Herb. 6: 230, fig. 120. 4 Aug 1943. **TYPE: PANAMA. Coclé**. El Valle de Antón, 21 May 1939, *P.H. Allen 1817*. Lectotype: MO, designated by de Nevers, Ann. Missouri Bot. Gard. 75: 1151. 1988; isolectotypes: BH (1 sheet), GH. NOTE: Bailey did not indicate where the holotype was deposited.

Bactris duplex H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 160, fig. 61. 19 Nov 1949. **TYPE: COLOMBIA**. Vaupés: road from San Martín near Río Ocoa, 23 Oct 1945, *P.H. Allen 3358*. Holotype: BH (2 sheets and 1 envelope).

Bactris ellipsoidalis L.H. Bailey, Gentes Herb. 7: 389, fig. 167. 17 Jul 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: MacNair, 26 Jan 1946, *L.H. Bailey 113*. Holotype: BH (1 sheet and 1 envelope).

Bactris fuscospina L.H. Bailey, Gentes Herb. 6: 228, fig. 119. 4 Aug 1943. **TYPE: PANAMA. Panamá**. Cerro Campana, 31 Dec 1939, *P.H. Allen 2086*. Lectotype, designated by de Nevers, Ann. Missouri Bot. Gard. 75: 1151. 1988: MO; isolectotype: BH (1 sheet and 1 envelope). NOTE: Bailey did not indicate where the holotype was deposited.

Bactris jamaicana L.H. Bailey, Gentes Herb. 4: 177, figs. 101–102, 105. 30 Apr 1938. **LECTOTYPE** (designated by V.T. Salzman & W.S. Judd, Brittonia 47: 363. 1995): **JAMAICA**. St. Catherine: Gibraltar, Frank Roper estate, 10 Nov 1935, *L.H. Bailey 216*. Lectotype: BH (3 sheets). NOTE: The syntype, *L.H. Bailey714*, was gathered from the same population on 2 Aug 1931, BH (6 sheets and 1 packet).

Bactris kalbreyeri Burret, Repert. Spec. Nov. Regni Veg. 34: 231. 1934. **NEOTYPE** (designated by R. Bernal G. et al., Taxon 38: 100. 1989): **COLOMBIA**. Antioquia: 11 km east of San Rafaeil on the road to Guatapé, 18 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1379*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope), HUA, K, NY.

Bactris militaris H.E. Moore, Gentes Herb. 8: 229, figs. 88, 94–95. 19 Nov 1949. **TYPE: COSTA RICA**. Puntarenas: Canton de Osa, near Tinoco Station on the Palmer-Golfito Railroad, 30 Apr 1949, *P.H. Allen 5276*. Holotype: BH (2 sheets, 1 envelope and 1 packet); isotype: US.

Bactris* × *moorei Weiss. Boer, Acta Bot. Neerl. 20: 169, fig. 1. 1971. **TYPE: BOLIVAR**. Bolívar: near El Palmar, 25 Nov 1967, *J.G. Wessels Boer 2092*. Holotype: U; isotype: BH.

Bactris obovoidea L.H. Bailey, Gentes Herb. 7: 392, fig. 169. 17 Jul 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: MacNair, 26 Jan 1946, *L.H. Bailey 114*. Holotype: BH (1 sheet and 1 envelope).

Bactris oraria L.H. Bailey, Gentes Herb. 6: 232, fig. 122. 4 Aug 1943. **TYPE: PANAMA. Panamá**. Taboguilla Island, Panama Bay, 1 Jun 1941, *P.H. Allen 2543*. Holotype: BH (2 sheets and 1 envelope).

Bactris paula L.H. Bailey, Gentes Herb. 6: 226, fig. 117. 4 Aug 1943. **TYPE: PANAMA. Panamá**. Cerro Campana, 31 Dec 1939, *P.H. Allen 2086*. Holotype: BH (1 sheet).

Bactris planifolia L.H. Bailey, Gentes Herb. 7: 392, figs. 168, 209. 17 Jul 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Siparia, St. Patrick, 29 Jan 1946, *L.H. Bailey 120*. Holotype: BH (1 sheet and 1 envelope).

Bactris sigmoidea Burret, Repert. Spec. Nov. Regni Veg. 34: 206. 1934. **NEOTYPE** (designated by R. Bernal G. et al., Taxon 38: 100. 1989): **COLOMBIA**. Antioquia: 8 km northeast of San Carlos on the road to San Rafael, 19 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1382*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope), HUA, K, NY.

Bactris superior L.H. Bailey, Gentes Herb. 3: 99, figs. 75–76, 83. 15 Mar 1933. **LECTOTYPE** (designated by de Nevers et al., Proc. Calif. Acad. Sci., ser. 4, 49: 198. 1996): **PANAMA. Canal Zone**. Barro Colorado Island, 12 Jun 1931, *L.H. Bailey & Z. Bailey 162*. Lectotype: BH (1 box, excluding leaves). NOTE: The excluded leaves removed by de Nevers et al. by their lectotypification are retained as a syntype in the type collection at BH (5 sheets).

Bactris swabeyi L.H. Bailey, Gentes Herb. 7: 399, fig. 174. 17 Jul 1947. **LECTOTYPE** (designated by A. Henderson, Fl. Neotrop. Monogr. 79: 108. 2000: BH (frag., 1 envelope)): **GUYANA**. Southern Watershed Reserve, near the Arboretum, 1937, *C. Swabey 13146*. Lectotype. NOTE: The fragments at BH suggest that the bulk of the collection used by Bailey to describe and illustrate this species was returned to Christopher Swabey (1906–1972), Conservator of Forests in British Guiana, and is to be sought in the Jonah Boyan Herbarium of the Guyana Forestry Commission in Kingston, Georgetown, Guyana. Unfortunately, the

inadvertent designation of the BH sheet as the lectotype may make it difficult to associate the name with a more complete and detailed specimen should one exist.

Balaka microcarpa Burret var. ***longicuspis*** Burret, Notizbl. Bot. Gart. Berlin-Dahlem 15: 90. 15 Feb 1940. **TYPE: FIJI**. Viti Levu: Colo-i-Suva, 21 Jun 1924, *E.H. Bryan 207*. Holotype: BISH; isotypes: BH (frag.), K, UC, US.

Basselinia favieri H.E. Moore in H.E. Moore & N.W. Uhl, Allertonia 3: 363, fig. 24. 17 Sep 1984. **TYPE: NEW CALEDONIA**. Nord: Mt. Panié, 3 Oct 1978, *H.E. Moore Jr. & P. Morat 10399*. Holotype: BH (1 box and 1 envelope).

Basselinia iterata H.E. Moore in H.E. Moore & N.W. Uhl, Allertonia 3: 366, fig. 24. 17 Sep 1984. **TYPE: NEW CALEDONIA**. Mount Ignambi above Diahoué, 15 Apr 1980, *H.E. Moore Jr. et al. 10561*. Holotype: BH (1 box and 1 envelope); isotypes: K, NOU, P, US.

Basselinia moorei Pintaud & F.W. Stauffer, Candollea 66: 150, figs. 1–2. 2011. **TYPE: NEW CALEDONIA**. Nord: ridge trail on Mt. Panié, 4 Oct 1978, *H.E. Moore, Jr. & P. Morat 10403*. Holotype: BH (1 box and 1 envelope); isotype: NOU.

Basselinia porphyrea H.E. Moore in H.E. Moore & N.W. Uhl, Allertonia 3: 367, fig. 24. 17 Sep 1984. **TYPE: NEW CALEDONIA**. Sud: ridge trail from Ngoye River to Mt. Nékando, 24 Oct 1978, *H.E. Moore Jr. et al. 10442*. Holotype: BH (1 box, 1 plastic bag and 1 envelope); isotypes: K, NOU, P.

Basselinia sordida H.E. Moore in H.E. Moore & N.W. Uhl, Allertonia 3: 361, figs. 22–24. 17 Sep 1984. **TYPE: NEW CALEDONIA**. Nord: slope and ridge of Mt. Boulinda, 13 Oct 1972, *H.E. Moore Jr. et al. 10072*. Holotype: BH (1 box and 1 envelope); isotype: NOU.

Brahea armata S. Watson, Proc. Amer. Acad. Arts 11: 146. Feb 1876. **TYPE: MEXICO. Baja California**. Big Canyon, Tantillas Mountains, 1875, *E. Palmer 438*. Holotype: GH; isotype: BH (frag.) PH.

Brahea bella L.H. Bailey, Gentes Herb. 6: 194, figs. 92–94, 99–100. 4 Aug 1943. **TYPE: MEXICO. Coahuila**. Rancho San Geronimo (Mangum), about 50 mi northwest of Múzquiz near the upper waters of Rio La Babia, 3 Dec 1942, *L.H. Bailey* 717. Holotype: BH (5 sheets and 1 envelope).

Brahea conzattii Bartlett, Publ. Carnegie Inst. Wash. 461(2): 30. 10 Jul 1935. **TYPE: MEXICO. Oaxaca**. Cuesta de Salomé, Feb 1906, *C. Conzatti 1717*. Holotype: US; isotype: BH (2 small envelopes in a packet).

Brahea moorei L.H. Bailey ex H.E. Moore, Gentes Herb. 8: 219, fig. 90. 30 Nov 1951. **LECTOTYPE (designated here): MEXICO. Hidalgo**. La Placita near km. 260 on highway between Zimapán and Jacala, 30 Oct 1949, *H.E. Moore Jr. 5013*. Lectotype: BH (1 sheet in 2 parts and 1 envelope). NOTE: Moore gave (l.c., 220) two dates "September 8 & October 30, 1949" for the type. The September date alludes to immature seeds preserved in a vial gathered "from same spadix" and assigned the same collection number (*5013*). That element now is a syntype.

Brahea prominens L.H. Bailey, Gentes Herb. 6: 192, figs. 92–94, 96–98. 4 Aug 1943. **TYPE: MEXICO. Oaxaca**. cultivated on Pasco Juárez, Oaxaca, 16 Mar 1940, *L.H. Bailey* 533. Holotype: BH (3 sheets and 1 box with 1 envelope and 2 packets).

Brongniartikentia lanuginosa H.E. Moore, Gentes Herb. 11: 154. 11 Nov 1976. **TYPE: NEW CALEDONIA**. Nord: first crest on east slope of Mt. Panié on the trail from Tiaot to summit, 23 Jun 1971, *H.E. Moore, Jr., M. Brinon, M. Schmid & J.M. Veillon 9967*. Holotype: BH (1 box with 3 envelopes and 1 seed packet); isotypes: NOU, P.

Burretiokentia dumasii Pintaud & Hodel, Principes 42: 160. 2 Sep 1998. **TYPE: NEW CALEDONIA**. Sud: Nodéla Valley, 15 Sep 1995, *J.-C. Pintaud & Y. Bruireu 266*. Holotype: P; isotypes: BH (1 sheet and 1 envelope), K, NOU.

Burretiokentia grandiflora Pintaud & Hodel, Principes 42: 162. 2 Sep 1998. **TYPE: NEW CALEDONIA**. Sud: Montagne des Sources, 9 Apr 1996, *J.-C. Pintaud & J.-P. Tivollier 335*. Holotype: P; isotypes: BH (1 sheet and 1 envelope), K.

Burretiokentia hapala H.E. Moore, Principes 13: 67. 16 Jun 1969. **TYPE: NEW CALEDONIA.** Nord: route to Parari from Balade along a stream, 8 Apr 1964, *H.E. Moore, Jr. et al. 9324.* Holotype: BH (1 box).

Burretiokentia koghiensis Pintaud & Hodel, Principes 42: 164. 2 Sep 1998. **TYPE: NEW CALEDONIA.** Sud: Mt. Koghi, 26 Sep 1996, *J.-C. Pintaud 403.* Holotype: P; isotypes: BH (1 sheet and 1 envelope), K, NOU.

Butia capitata (Mart.) Becc. var. ***strictior*** L.H. Bailey, Gentes Herb. 4: 32, fig. 18. 29 Sep 1936. **LECTOTYPE (designated here) UNITED STATES. California.** Los Angeles: 44 Orange Grove Avenue, Pasadena, 16 May 1936, *L.H. Bailey 389.* Lectotype: BH (6 sheets and 2 packets). NOTE: Bailey cited two elements and had a third in hand from a "single tree in Pasadena" which he stated "comprises the type." The latter element is now designated as the lectotype.

Calamus acanthochlamys J. Dransf., Kew Bull. 45: 85, fig. 4. 16 Feb 1990. **TYPE: MALAYSIA.** Sarawak: Miri Suai, Ulu Sg, Sibau, 22 Jul 1977, *I. bin Paie S39160.* Holotype: K; isotypes: BH (1 sheet and 1 packet), L, SAR.

Calamus balingensis Furtado, Gard. Bull. Singapore 15: 240, t. 66. 20 Nov 1956. **TYPE: MALAYSIA.** Kedah: Gunong Baling, near Gua Bebu, 4 Jun 1937, *C.X. Furtado 33073.* Holotype: SING; isotypes: BH (1 sheet and 1 packet), BO, K, KEP, L, PNH.

Calamus castaneus Griff., Calcutta J. Nat. Hist. 5: 28. Apr 1845. **TYPE: MALAYSIA.** Thick jungle near the Pringitt estate near Malacca and at Ayer-Punnus, sin dat., *E. Fernandez s.n.* Syntype: BH (frag.), BR. NOTE: The BR sheet, from which the BH fragment was obtained, is composed three branches of both male and female inflorescences, fruits, and two attached packets. The BH fragment (a flower) was taken from one of the inflorescences. The upper left packet on one of the BR sheets is annotated "Rotan Chochoor", the name given by Fernandez to the collection. Based on the statement in Griffiths, the plant was collected at two different locations. All of the BR specimens are annotated "var. α." Other specimens are at K and P. See Beccari (Ann. Roy. Bot. Gard. (Calcutta) 11: 146. 1908). The var. β of Griffiths was named *C. griffithianus* Mart., Hist. Nat. Palm. 3: 332. 1850 (see below); see also Furtado, Gard. Bull. Singapore 15: 50, t. 1. 1956.

Calamus cockburnii J. Dransf., Malaysian Forester 41: 338. 1978. **TYPE: MALAYSIA.** Pahang: Gunung Tapis, Ulu Sungei Kelui, 8 Sep 1968, *P.F. Cockburn FRI 10949.* Holotype: KEP; isotype: BH (1 sheet).

Calamus concinnus Mart., Hist. Nat. Palm., ed. 1, 3: 208. 23 Sep 1838. **TYPE: INDIA.** Tavoy, Dec 1827, *N.H. Wallick 8607.* Holotype: BR; isotype: BH (frag.).

Calamus corneri Furtado, Gard. Bull. Singapore 15: 219, t. 57. 20 Nov 1956. **TYPE: MALAYSIA.** Kemaman: Ulu Bendong in Kajang, 30 Oct 1935, *E.J.H. Corner 30058.* Holotype: SING; isotypes: BH (1 sheet), K.

Calamus dasyacanthus W.J. Baker, Bayton, J. Dransf. & Maturb., Kew Bull. 58: 364, fig. 2. 24 Jul 2003. **TYPE: INDONESIA.** Irian Jaya, Fak-Fak: between Ajkwa and Otomona rivers on the road to Timika at milepost 38, 10 Feb 1998, *W.J. Baker et al. WJB 827.* Holotype: K; isotypes: AAU, BH (1 sheet and 1 envelope), BO, L, MAN.

Calamus diepenhorstii Miq. var. ***kemamanensis*** Furtado, Gard. Bull. Singapore 15: 258, t. 72. 20 Nov 1956. **TYPE: MALAYSIA.** Kemaman: Bukit Kajang, 9 Nov 1935, *E.J.H. Corner 30355.* Holotype: SING; isotypes: BH (1 sheet and 1 packet), K.

Calamus endauensis J. Dransf., Malaysian Forester 41: 330. 1978. **TYPE: MALAYSIA.** Johore: Labis Forest Reserve, Ulu Endau, foot of G. Jaring, 16 Jun 1977, *J. Dransfield JD5084.* Holotype: KEP; isotypes: BH (1 sheet and 1 packet), K, KLU, L.

Calamus essigii W.J. Baker, Kew Bull. 57: 719, fig. 1. 27 Sep 2002. **TYPE: PAPUA NEW GUINEA.** Central: Kokoda Trail, 1 mile from Owers Corner, 24 Feb 1972, *F.B. Essig & J.S. Womersley LAE 55180.* Holotype: K; isotypes: BH (1 sheet and 1 envelope), L, LAE.

Calamus fertilis Becc., Ann. Roy. Bot. Gard. (Calcutta) 11: 492. 1908. **TYPE: PAPUA NEW GUINEA**. Mt. Dayman, 1894, *W. Armit s.n.* Holotype: B, destroyed; isotypes: BH (frag.), FI. NOTE: No lectotype has been proposed.

Calamus flabelloides Furtado, Gard. Bull. Singapore 15: 173, t. 43. 20 Nov 1956. **TYPE: MALAYSIA**. Johore: near Sungai Kayu, 14 Apr 1935, *E.J.H. Corner 29284*. Holotype: SING; isotypes: BH (1 sheet), BO, K, KEP, L.

Calamus grandis Griff., Calcutta J. Nat. Hist. 5: 84. Apr 1845. **TYPE: MALAYSIA**. Malacca: Malacca, 1843, *E. Fernandez s.n.* Holotype: not determined; isotypes: BH (frag.); BR.

Calamus griffithianus Mart. in W.G. Walpers, Ann. Bot. Syst. 3: 482. 24–25 Aug 1852. **TYPE: MALAYSIA**. Without location, sin dat., *W. Griffith 1841*. Holotype: BR; isotype: BH (frag.). NOTE: It is unclear if the number "1841", associated with the three specimens in the Martius herbarium, is the date when the specimens were gathered or a Griffith collection number. All of the specimens in this series are marked "*C. castaneus* var. α" but there is no firm evidence that this is the same Fernandez collection given the same Greek letter by Griffith which is the type of *C. castaneus* (see above). The name *Calamus griffithianus* Mart. (Hist. Nat. Palm. 3: 332, t. Z, 18, fig. 17, t. Z, 21, fig. 3. Jan-Jul 1853) is an isonym.

Calamus holttumii Furtado, Gard. Bull. Singapore 15: 228, tt. 61–61a. 20 Nov 1956. **TYPE: MALAYSIA**. Johore: Gunong Panti, 28 Dec 1940, *R.E. Holttum 37395*. Holotype: SING; isotypes: BH (1 sheet and 1 packet), L.

Calamus intermedius Griff., Calcutta J. Nat. Hist. 5: 86. Apr 1845. **NEOTYPE** (designated by C.X. Furtado, Gard. Bull. Straits Settlem. 14: 71. 1 Aug 1953): **MALAYSIA**. Kroh, Bukit Merbau Pulas, 27 May 1937, *C.X. Furtado 33040*. Neotype: K; isoneotype: BH (1 sheet and 1 packet).

Calamus jenkinsianus Griff., Calcutta J. Nat. Hist. 5: 81. Apr 1845. **TYPE: MALAYSIA**. Malacca: Malacca, 1843, *F. Jenkins s.n.* Holotype: not determined; isotypes: BH (frag.); BR, K, P.

Calamus kemamanensis Furtado, Gard. Bull. Singapore 15: 170, tt. 42–42a. 20 Nov 1956. **TYPE: MALAYSIA**. Kemaman: near Malaice Sungai Nipa, 21 Nov 1935, *E.J.H. Corner 30535*. Holotype: SING; isotypes: BH (1 sheet), K.

Calamus lambirensis J. Dransf., Kew Bull. 45: 89, fig. 6. 16 Feb 1990. **TYPE: MALAYSIA**. Sarawak: Lamabir National Park, Miri, 1 Mar 1966, *A. Morshidi S24059*. Holotype: K; isotypes: BH (1 sheet), SAR.

Calamus leloi J. Dransf. in A.C. Jermy, Bot. J. Linn. Soc. 81: 11, fig. 2. 4 Nov 1980. **TYPE: MALAYSIA. BORNEO**. Sarawak: lower slopes of G. Mulu Miri, G. Mulu National Park, 7 Oct 1977, *J. Dransfield JD5295*. Holotype: SAR; isotypes: BH (1 sheet and 1 packet), K, L.

Calamus loeiensis Hodel, Palm J. 139: 54. Mar 1998. **TYPE: THAILAND**. Loei: Phu Kra Dung, 8 Nov 1997, *D.R. Hodel & P. Vatcharakorn 1770*. Holotype: BH (1 sheet and 1 envelope).

Calamus monticola Griff., Calcutta J. Nat. Hist. 5: 90. Apr 1845. **TYPE: MALAYSIA**. Malacca: on Gonoong Miring, near Mt. Ophir, sin dat., *W. Griffiths s.n.* Holotype: not determined, possibly CAL; isotypes: BH (frag.), BR, K. NOTE: The sheet at BR corresponds closely with Griffiths plate (Palms Brit. E. Ind.: t. CCXIV. 1850).

Calamus nanodendron J. Dransf., Kew Bull. 45: 90, fig. 7. 16 Feb 1990. **TYPE: MALAYSIA. BORNEO**. Sarawak: Sabal Tapang Forest Reserve, slopes of G. Gaharu, 20 May 1981, *J. Dransfield et al. JD 6092*. Holotype: K; isotypes: BH (1 sheet and 1 envelope), K, SAR.

Calamus nutantiflorus Griff., Calcutta J. Nat. Hist. 5: 79. Apr 1845. **TYPE: INDIA**. Assam: Without location or date, *F. Jenkins s.n.* Holotype: Not determined, possibly at CAL; isotypes: BH (frag.), BR, K.

Calamus pandanosmus Furtado, Gard. Bull. Singapore 15: 217, t. 56. 20 Nov 1956. **TYPE: MALAYSIA**. Kemaman: near Ulu Kajang, 26 Nov 1935, *E.J.H. Corner 30595*. Holotype: SING; isotypes: BH (1 sheet), K, L.

Calamus peregrinus Furtado, Gard. Bull. Singapore 15: 66, t. 9. 20 Nov 1956. **TYPE: MALAYSA.** Perak: Bukit, Merbau Balong, near Kroh, 26 Jun 1937, *C.X. Furtado 33035*. Holotype: SING; isotypes: BH (1 sheet and 1 packet), BO, K, KEP, L.

Calamus psilocladus J. Dransf., Kew Bull. 45: 96, fig. 9. 16 Feb 1990. **TYPE: MALAYSIA.** Sarawak: Mile 74 Kuching-Simanggang, near Pundajaya Timber Camp, 24 May 1981, *J. Dransfield JD 6137*. Holotype: K; isotypes: BH (1 sheet, 1 packet), BO, L. PNH, SAR.

Calamus reinwardtii Mart., Hist. Nat. Palm. 1: t. 112. 1831, as "reinwardti." **LECTOTYPE (designated here): INDONESIA.** Java: without location, 1830, *C.G.C. Reinwardt 495*. Lectotype: BR; isolectotype: BH (frag.). NOTE: A plate with an analysis appeared in 1831, before the name was described and is discussed by Martius (Hist. Nat. Palm. 1: 208. 23 Sep 1838), and thus both the image and specimens at BR are original material and a lectotype is appropriate. The designated sheet is a female plant (BH photo No. 2898) and closely resembles the illustration. There are four additional syntype sheets at BR (BH photo nos. 2899–2902).

Calamus riparius Furtado, Gard. Bull. Singapore 15: 103, t. 20. 20 Nov 1956. **TYPE: MALAYSIA.** Johore: Sungai Kayu, 4 Mar 1937, *Kiah bin Hj. Salleh 32310*. Holotype: SING; isotypes: BH (1 sheet), K.

Calamus rivalis Thwaites ex Trimen, J. Bot. 23: 268. Aug 1885, as "*nivalis*", see pp. 386, 392. Oct 1885 **TYPE: SRI LANKA.** Koti Canal, 5 miles from Colombo, Sep 1864, *W. Ferguson 3914*. Holotype: PDA; isotypes: BH (frag.), BR, CAL, G-DC, GH, K.

Calamus royleanus Griff., Calcutta J. Nat. Hist. 5: 40. Apr 1845. **TYPE: INDIA.** Jungles of Dehra Doon, chiefly towards the eastern extremity of the valley, as at Kurruck, sin dat., *Griffiths 492*. Holotype: not determined; isotypes: BH (frag.), BR. NOTE: It is uncertain if the expression, "Gr. 492", on the label at BR is a collection number or not.

Calamus sabalensis J. Dransf., Kew Bull. 45: 83, fig. 3. 16 Feb 1990. **TYPE: MALAYSIA. BORNEO.** Sarawak: Sabal Tapang Forest Reserve, Mile 74, 24 May 1981, *J. Dransfield et al. JD6133*. Holotype: K; isotypes: BH (1 sheet and 1 packet), K, SAR.

Calamus senalingensis J. Dransf., Malaysian Forester 41: 342. 1978. **TYPE: MALAYSIA.** Negeri Sembilan: Kuala Pilah, Bukit Senaling, 11 May 1977, *J. Dransfield & Y.C. Chan JD 4991*. Holotype: KEP; isotypes: BH (1 sheet), K.

Calamus sordidus J. Dransf. in A.C. Jermy, Bot. J. Linn. Soc. 81: 13, fig. 3. 4 Nov 1980. **TYPE: MALAYSIA.** Sarawak: G. Mulu National Park, lower slopes of G. Mulu near Camp 2, Miri, 6 Oct 1977, *J. Dransfield JD 5288*. Holotype: SAR; isotypes: BH, K, L.

Calamus speciosissimus Furtado, Gard. Bull. Singapore 15: 198, tt. 49–49a. 20 Nov 1956. **TYPE: MALAYSIA.** Kemaman: Bukit Kajang, 14 Nov 1935, *E.J.H. Corner 30464*. Holotype: SING; isotypes: BH (1 sheet and 1 packet), BO, K, KEP, L. NOTE: Furtado pointed out on the type labels that, when published, the collection number was incorrectly given as "30364".

Calamus steenisii Furtado, Gard. Bull. Straits Settlem. 9: 182. 4 May 1937. **TYPE: INDONESIA.** West Java: Bogor, Botanical Garden, Apr–Mai 1936, *C.X. Furtado 30840*. Holotype: SING; isotypes: BH (1 sheet and 1 envelope), BO, K, L, PAR.

Calamus zeylanicus Becc. ex Becc. & Hook.f. in J.D. Hooker, Fl. Brit. Ind. 6: 455. Sep 1893. **TYPE: SRI LANKA.** Saffragam, 1868, *Walker CP 2874*. Holotype: PDA; isotypes: BH (frag.), BR, CAL, G-BOIS, G-DC, G-DEL, K. NOTE: The date, 1868, associated with the BR label may or may not be the year the collection was made.

Calyptrogyne anomala de Nevers & A. Hend., Syst. Bot. 13: 428, figs. 1–2. 9 Aug 1988. **TYPE: PANAMA. Panamá.** Comarca de San Blas, along the El Llano-Carti road at Km 30, 23 Nov 1985, *G. de Nevers & A. Henderson 6322*. Holotype: MO; isotypes: AAU, BH (1 sheet and 1 envelope), CAS, COL, FTG, K, NY, PMA, US.

Calyptrogyne brachystachys Burret, Bot. Jahrb. Syst. 63: 132. 1 Mar 1930. **NEOTYPE** (designated by A. Henderson, Syst. Bot. 38: 79. 2005): **COSTA RICA. Alajuela.** By Río Maria Aguilar

between Cariblanco and San Miguel in the valley of Río Sarapiqui, 23 Mar 1953, *H.E. Moore, Jr. 6565*. Neotype: BH (1 sheet).

Calyptrogyne kunorum de Nevers, Proc. Calif. Acad. Sci., ser. 4, 48: 338. 1 Aug 1995. **TYPE**: **PANAMA. Comarca de San Blás**. Cerro Brewster, 20 Nov 1985, *G. de Nevers et al. 6261*. Holotype: CAS; isotypes: BH (1 sheet, 1 envelope), MO, NY.

Calyptrogyne pubescens de Nevers, Proc. Calif. Acad. Sci., ser. 4, 48: 336. 1 Aug 1995. **TYPE**: **PANAMA. Panamá**. East of the Gualaca-Chiriqui Grande Road, 10 miles north of the Continental Divide, 1 mile east along a side road, 19 Jan 1989, *G. de Nevers, F. Almeda & G. McPherson 8825*. Holotype: CAS; isotypes: BH (1 sheet and 1 envelope), COL, K, MO, NY, PMA.

Calyptrogyne trichostachys Burret, Bot. Jahrb. Syst. 63: 135. 1 Mar 1930. **NEOTYPE** (designated by A. Henderson, Syst. Bot. 38: 77. 2005): **COSTA RICA. Alajuela**. Reserva Biologica de San Ramón on road from Las Lagunas to Colonia Palmareña, 30 May 1986, *G. de Nevers, B. Hammel & C. Gómez 7777*. Neotype: NY; isoneotypes: BH (1 box, 1 envelope), MO.

Calyptronoma quisqueyana L.H. Bailey, Gentes Herb. 4: 169, figs. 86, 89, 92, 94. 30 Apr 1938. **LECTOTYPE** (designated by T. Zona, Principes 39: 149. 1995): **HAITI**. Quest: Morne Saut d'Eau, Chaine des Matheaux, beyond and above Ville Bonheur, 29 Mar 1937, *L.H. Bailey 229*. Lectotype: BH (1 box with 1 empty envelope, and 6 sheets with 1 mounted envelope, and 6 [mostly empty] envelopes). NOTE: Bailey did not indicate where the holotype was deposited. *Bailey 229a* (1 sheet and 1 envelope) is a syntype.

Caryota kiriwongensis Hodel, Palms 53: 171, fig. 1. 15 Dec 2009. **TYPE**: **THAILAND**. Nakhon Si Thammarat: upper reaches of Kiriwong Valley behind Nakhon Si Thammarat, 28 Nov 1997, *D.R. Hodel & P. Vatcharakorn 1809*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Ceroxylon floccosum Burret, Notizbl. Bot. Gart. Berlin-Dahlem 10: 851. 1929. **NEOTYPE** (designated by R. Bernal G. et al., Taxon 38: 101. 1989): **COLOMBIA**. Antioquia: near Valmaría, Hacienda La María, San José de La Montaña, 16 Dec 1979, *R. Bernal G. & G. Galeano 53*. Neotype: COL; isoneotypes: BH (1 sheet and 1 envelope), HUA.

Chamaedorea allenii L.H. Bailey, Gentes Herb. 6: 241, fig. 126. 4 Aug 1943. **TYPE**: **PANAMA. Coclé**. North rim of El Valle de Anton, 9 Jul 1939, *P.H. Allen 1909*. Holotype: MO; isotype: BH (frag).

Chamaedorea alternans H. Wendl., Gartenflora 1880: 104. Apr 1880. **NEOTYPE** (designated by D.R. Hodel, Chamaedorea Palms: 236. 1992): **MEXICO. Veracruz**. Between Catamaco and Zontecomapan, on road to Monte Pio, about 7 miles from Catamaco, 11 Apr 1952, *H.E. Moore, Jr. & M. Cetto 6260*. Neotype: BH (2 sheets and 2 envelopes).

Chamaedorea anemophila Hodel, Principes 39: 14, figs. 1–4. 25 Apr 1995. **TYPE**: **PANAMA. Chiriqui**. 33 km just beyond San Felix on road up to Cerro Colorado, 22 Apr 1993, *D.R. Hodel, J. Benzie & C. Hubbuch 1200*. Holotype: BH (1 sheet and 1 envelope), HNT, MO, PMA.

Chamaedorea benziei Hodel, Principes 36: 188, figs. 1–4. 30 Dec 1992. **TYPE**: **UNITED STATES. California**. San Diego Co: cultivated at Ingwersen Nursery, Oceanside, from seeds gathered by Tom MacDougall in Chiapas, Mexico, 6 Mar 1992, *D.R. Hodel, J. Benzie & P. Baylard 1143*. Holotype: BH (1 box and 1 envelope); isotypes: CAS, MEXU.

Chamaedorea binderi Hodel, Principes 40: 215, figs. 4–6. 27 Nov 1996. **TYPE**: **COSTA RICA. Puntarenas**. San Vito de Jaba, Fila Torre Alta, west of Jardin Botánico Wilson on road to Laguna, 15 Nov 1994, *D.R. Hodel & J. Benzie 1340*. Holotype: BH (1 box and 1 envelope); isotype: CR.

Chamaedorea castillo-montii Hodel, Phytologia 68: 397. mid Jun 1990. **TYPE**: **GUATEMALA. Izabal**. summit of Cerro San Gil, 2 Nov 1989, *D.R. Hodel & J.J. Castillo Mont 868A*. Holotype: BH (1 sheet and 1 envelope); isotype: AGUAT.

Chamaedorea coralliformis Hodel, Principes 40: 212, figs. 1–3. 27 Nov 1996. **TYPE**: **COSTA RICA. Puntarenas**. Las Alturas de Coton, Stanford Research Station, south slope of Cerro

Chai, 14 Nov 1994, *D.R. Hodel & M. Binder 1345*. Holotype: BH (1 sheet and 1 envelope); isotype: CR, HNT.

Chamaedorea crucensis Hodel, Principes 34: 166, fig. 7. 12 Dec 1990. **TYPE: COSTA RICA. Puntarenas**. San Vito de Java, Las Cruces Botanical Garden, 29 Nov 1987, *D.R. Hodel & M. Hodel 706A*. Holotype: BH (1 sheet and 1 envelope); isotype: CR. NOTE: The sheet at BH is a mixture of 706A (staminate) and 706B (pistillate) with leaves not assigned to either.

Chamaedorea erumpens H.E. Moore cv. **'Fairchild'** H.E. Moore, Gentes Herb. 8: 233. 30 Nov 1951. **Type: UNITED STATES. Florida**. Dade Co: Fairchild Tropical Garden, Coconut Grove, 28 Mar 1951, *H.E. Moore, Jr. 5832*. Nomenclatural standard: BH (2 sheets and 1 envelope).

Chamaedorea erumpens H.E. Moore, Gentes Herb. 8: 232, figs. 96–97. 30 Nov 1951. **Type: UNITED STATES. Florida**. Dade Co: Fairchild Tropical Garden, Coconut Grove, 28 Mar 1951, *H.E. Moore, Jr. 5830*. Lectotype (**designated here**): BH (2 sheets). NOTE: Moore did not designate a holotype.

Chamaedorea falcaria L.H. Bailey, Gentes Herb. 4: 254, fig. 134. 4 Aug 1943. **TYPE: PANAMA. Coclé**. north of El Valle de Anton, 10 May 1942, *P.H. Allen 2949*. Holotype: BH (1 sheet and 1 envelope).

Chamaedorea ferruginea H.E. Moore, Gentes Herb. 8: 236, fig. 98. 30 Nov 1951. **TYPE: MEXICO. Oaxaca**. District Choapam, Latani, 13 May 1939, *R.E. Schultes 905*. Holotype: BH (2 sheets).

Chamaedorea foveata Hodel, Phytologia 68: 403, fig. 2. mid Jun 1990. **TYPE: MEXICO. Oaxaca**. Izabal: north of San Gabriel Mixtepec, along the road from Puerto Escondido to Oaxaca, 4 Dec 1989, *D.R. Hodel & R.J. Hodel 939A*. Holotype: BH (1 sheet and 1 envelope); isotype: MEXU.

Chamaedorea fractiflexa Hodel & Cast.Mont., Principes 35: 6, figs, 5–7. 14 Feb 1991. **TYPE: GUATEMALA. Quezaltenango**. Pacific slope of Volcan Zunil, 11 Nov 1989, *D.R. Hodel & J.J. Castillp Mont 912A*. Holotype: BH (1 sheet and 1 envelope); isotype: AGUAT.

Chamaedorea frondosa Hodel, Cast.Mont. & Zúñiga, Principes 39: 186, figs. 5–8. 17 Oct 1995. **TYPE: HONDURAS. Cortes**. Montana San Idelfonso, above Estacion El Cusuco, 17 Feb 1994, *D.R. Hodel, R. Zúñiga & J.J. Castillo Mont 1274*. Holotype: BH (1 sheet and 1 envelope); isotypes: AGUAT, EAP, F, MO.

Chamaedorea guntheriana Hodel & N.W. Uhl, Principes 34: 126, figs. 8–9, 11. 16 Aug 1990. **TYPE: PANAMA. Panamá**. Cerro Jefe, 19 Dec 1987, *D.R. Hodel & M. Hodel 746*. Holotype: BH (1 sheet and 1 envelope); isotype: PMA.

Chamaedorea hageniorum L.H. Bailey, Gentes Herb. 6: 247, fig. 129. 4 Aug 1943. **TYPE: PANAMA. Chiriquí**. Cerro Horqueta, 27 Apr 1940, *C. von Hagen & W. von Hagen 2060*. Holotype: MO; isotype: BH (1 sheet and 1 packet).

Chamaedorea hooperiana Hodel, Principes 35: 188, figs. 6–8. 12 Nov 1991. **TYPE: UNITED STATES. California**. Orange Co: cultivated in the garden of Louis Hooper, 16 Apr 1988, *D.R. Hodel 772*. Holotype: BH (2 sheets and 2 envelopes); isotypes: CR, HNT, K, MEXU, MO, NY.

Chamaedorea ibarrae Hodel, Principes 36: 191, figs. 5–6. 30 Dec 1992. **TYPE: MEXICO. Chiapas**. Municipio of Tenejapa, parjae of Kulak'tik, 11 Aug 1965, *D.E. Breedlove 11706*. Holotype: CAS; isotypes: BH (1 sheet and 1 envelope), F, MICH.

Chamaedorea incrustata Hodel, G. Herrera & Cascante, Palm J. 137: 40, figs. 7–9, inside backcover. Nov 1997. **TYPE: COSTA RICA. San José**. Cantón de Terrazú, 7 km south of San Lorenzo, Cruce de Pacaya, west of road near junction with road to San Carlos and Esperanza, 4 Dec 1996, *D.R. Hodel, R. Chacón, A. Cascante, & G. Herrera 1532*. Holotype: BH (1 sheet and 1 envelope); isotypes: CR, MO.

Chamaedorea keeleriorum Hodel, Principes 36: 194, figs. 8–10. 30 Dec 1992. **TYPE: GUATEMALA. Quezaltenango**. Pacific slope of Volcan Zunil, 11 Nov 1989, *D.R. Hodel & J.J. Castillo Mont 911*. Holotype: BH (1 sheet and 1 envelope); isotype: AGUAT.

Chamaedorea latipinna L.H. Bailey, Gentes Herb. 6: 244, fig. 128. 4 Aug 1943. **TYPE: PANAMA. Bocas del Toro**. Fish Creek, near Chiriqui Lagoon, 19 Apr 1941, *H. von Wedel 2275*. Holotype: MO; isotype: BH (1 sheet and 1 envelope with a packet).

Chamaedorea leonis H.E. Moore, Gentes Herb. 12: 30. 29 Feb 1980. **TYPE: UNITED STATES. Florida**. Dade Co: cultivated at Parrot Jungle, Red Road, Coral Gables, 1 Apr 1969, *H.E. Moore, Jr. 9586*. Holotype: BH (1 sheet and 1 envelope with a packet).

Chamaedorea linearia L.H. Bailey, Gentes Herb. 6: 249, fig. 131. 4 Aug 1943. **TYPE: PANAMA. Panamá**. El Boquete, 3 Mar 1911, *H. Pittier 2922*. Holotype: US; isotype: BH (frag.).

Chamaedorea lucidifrons L.H. Bailey, Gentes Herb. 6: 244, fig. 128. 4 Aug 1943. **TYPE: PANAMA. Coclé**. Near El Valle de Anton, 21 May 1939, *P.H. Allen 2949*. Lectotype, designated by D.R. Hodel, Chamaedorea Palms: 84. 1992, as "holotype": MO; isolectotype: BH (frag.). NOTE: Bailey did not indicate where the holotype was deposited.

Chamaedorea metallica O.F. Cook ex H.E. Moore, Principes 10: 45, fig. 1–4. 2 Sep 1966. **TYPE: UNITED STATES. New York**. Tompkins Co.: cultivated, Cornell University, 20 Jun 1966, *H.E. Moore, Jr. 9373*. Holotype: BH (pistillate plant, 1 sheet and 1 packet). NOTE: At BH there are 2 sheets of a staminate plant with the same collection number of which one has a packet. These are retained in the type collection as they represent original material.

Chamaedorea minima Hodel, Principes 35: 72, figs. 1–2. 20 Jun 1991. **TYPE: COSTA RICA. Puntarenas**. San Vito de Coto Brus, Jardín Botánico Wilson, 30 Nov 1987, *D.R. Hodel & R.J. Hodel 622A*. Holotype: BH (1 sheet and 1 envelope with a large packet).

Chamaedorea moliniana Hodel, Cast.Mont. & Zúñiga, Principes 39: 183, figs. 1–4. 17 Oct 1995. **TYPE: HONDURAS. Cortes**. Montana San Idelfonso, above Estacion El Cusuco, 17 Feb 1994, *D.R. Hodel, R. Zúñiga & J.J. Castillo Mont 1273*. Holotype: BH (1 sheet and 1 envelope); isotypes: AGUAT, EAP.

Chamaedorea nationsiana Hodel & Cast.Mont., Principes 35: 4, fig. 1–4. 14 Feb 1991. **TYPE: GUATEMALA. Izabal**. Cerro San Gil, La Vuelta del Tigre, 19 May 1990, *D.R. Hodel & J.J. Castillo Mont 1021A*. Holotype: BH (1 sheet and 1 envelope); isotype: AGUAT.

Chamaedorea palmeriana Hodel & N.W. Uhl, Principes 34: 122, figs. 4–5. 16 Aug 1990. **TYPE: PANAMA. Chiriqui**. El Boquete, 14 Dec 1987, *D.R. Hodel & R.J. Hodel 726A*. Holotype: BH (1 sheet and 1 envelope). NOTE: The sheet presently is a mixture of 726A (staminate) and 726B (pistillate) and is so identified by paper tags when appropriate.

Chamaedorea parviflora Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 746. 31 Mar 1933. **NEOTYPE** (designated by D.R. Hodel, Chamaedorea Palms: 96. 1992): **COSTA RICA. San José**. 0.5 km south of El Jardín along Hwy 12 to Santa Maria, 27 Feb 1990, *D.R. Hodel, M. Grayum & J. Grant 965A*. Neotype: BH (1 sheet and 1 envelope); isoneotype: CR.

Chamaedorea parvisecta Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 742. 31 Mar 1933. **NEOTYPE** (designated by D.R. Hodel, Chamaedorea Palms: 170. 1992): **GUATEMALA. Alta Verapaz**. Chilascó, Finca Beshara, 16 Apr 1991, *D.R. Hodel & J.J. Castillo Mont 1102A*. Neotype: BH (1 sheet); isoneotype: AGUAT. NOTE: A second collection, *Hodel & Castillo Mont 1102B*, is in an envelope and is retained with the neotype.

Chamaedorea pedunculata Hodel & N.W. Uhl, Principes 34: 131, figs. 13–14. 16 Aug 1990. **TYPE: COSTA RICA. Puntarenas**. San Vito de Java, Las Cruces Botanical Garden, trail through forest to river, 29 Nov 1987, *D.R. Hodel & M. Hodel 708A*. Holotype: BH (1 sheet and 1 envelope); isotype: CR. NOTE: The holotype sheet is a mixture (as labeled) of *708A* (staminate) and *708B* (pistillate).

Chamaedorea piscifolia Hodel, G. Herrera & Cascante, Palm J. 137: 32, figs. 1–2. Nov 1997. **TYPE: COSTA RICA. San José**. Cantón de Terrazú, 6 km south of Napoles, Chilamate, west side of Cerro Pito, 5 Dec 1996, *D.R. Hodel, R. Chacón, A. Cascante, & G. Herrera 1540*. Holotype: BH (1 sheet and 1 envelope); isotypes: CR, K, MO, NY, USJ.

Chamaedorea pittieri L.H. Bailey, Gentes Herb. 6: 252, fig. 132. 4 Aug 1943. **TYPE: PANAMA. Chiriqui**. south slope of Cerro de la Horqueta, 17 Mar 1911, *H. Pittier 3169*. Holotype: US; isotype: BH (frag.).

Chamaedorea plumosa Hodel, Principes 36: 197, figs. 11–19. 30 Dec 1992. **TYPE: UNITED STATES. California**. Los Angeles Co: cultivated in the garden of Rae Anderson, Sierra Madre, from seeds gathered at Las Rosas, Chiapas, Mexico, by Gary Hammer, 18 Feb 1992, *D.R. Hodel & R. Anderson 1141*. Holotype: BH (1 sheet and 1 envelope); isotypes: CR, HNT, K, MO, US, USJ.

Chamaedorea queroana Hodel, Phytologia 68: 406. mid Jun 1990. **TYPE: MEXICO. Oaxaca**. North of San Gabriel Mixtepec along the road from Puerto Escondido to Oaxaca, 6 Dec 1989, *D.R. Hodel & R.J. Hodel 943B*. Holotype: BH (1 sheet); isotype: MEXU. NOTE: The paratype, *D.R. Hodel & R.J. Hodel 943A* (BH, 1 sheet and 1 envelope), is retained with the type.

Chamaedorea recurvata Hodel, Principes 39: 16, figs. 5–6. 25 Apr 1995. **TYPE: PANAMA. Chiriquí**. ridge behind Fortuna Dam Camp, 24 Apr 1993, *D.R. Hodel, J. Benzie & C. Hubbuch 1209*. Holotype: BH (1 sheet and 1 envelope); isotypes: MO, PMA.

Chamaedorea rhizomatosa Hodel, Phytologia 68: 401, fig. 1. mid Jun 1990. **TYPE: MEXICO. Oaxaca**. Izabal, beyond San Gabriel Mixtepec, along the road from Puerto Escondido to Oaxaca, 4 Dec 1989, *D.R. Hodel & R.J. Hodel 936*. Holotype: BH (1 sheet and 1 envelope); isotype: MEXU.

Chamaedorea robertii Hodel & N.W. Uhl, Principes 34: 120, figs. 1, 2, 3. 16 Aug 1990. **TYPE: PANAMA. Panamá**. El Cope, on the Atlantic slopes just below the continental divide, 17 Dec 1987, *D.R. Hodel & R.M. Hodel 737*. Holotype: BH (1 sheet and 1 envelope); isotype: PMA.

Chamaedorea rossteniorum Hodel, G. Herrera & Cascante, Palm J. 137: 34, figs. 4–6. Nov 1997. **TYPE: COSTA RICA. San José**. Cantón de Terrazú, 5 km south of San Lorenzo, Cruce de Pacaya, near junction with road to San Carlos and Esperanza, 4 Dec 1996, *D.R. Hodel, R. Chacón, A. Cascante, & G. Herrera 1532*. Holotype: BH (1 sheet and 1 envelope); isotypes: CR, MO, USJ.

Chamaedorea scheryi L.H. Bailey, Gentes Herb. 6: 252, fig. 133. 4 Aug 1943. **TYPE: PANAMA. Chiriqui**. near Bajo Chorro, 20–22 Jul 1940, *R.E. Woodson, Jr. & R.W. Schery 680*. Holotype: MO; isotype: BH (frag.).

Chamaedorea seibertii L.H. Bailey, Gentes Herb. 6: 238, fig. 125. 4 Aug 1943. **TYPE: PANAMA. Chiriqui**: Upper Río Chiriqui Viejo, near Monte Lirio, 27 Jun–13 Jul 1935, *R.J. Seibert 218*. Holotype: MO; isotype: BH (frag.).

Chamaedorea seifrizii Burret, Notizbl. Bot. Gart. Berlin-Dahlem 14: 268. 30 Dec 1938. **NEOTYPE** (designated by D.R. Hodel, Chamaedorea Palms: 192. 1992): **MEXICO. Yucatan**. Chichen Itza, on a mound near Templo de los Guerreros, 6 Oct 1959, *H.E. Moore 8096*. Neotype: BH (1 sheet and 1 packet).

Chamaedorea serpens Hodel, Principes 35: 77, figs. 8–9. 20 Jun 1991. **TYPE. PANAMA. Coclé**. El Valle de Antón, mesa area behind north rim of El Valle, 18 Dec 1987, *D.R. Hodel & R.J. Hodel 745*. Holotype: BH (1 sheet and 1 envelope); isotype: PMA.

Chamaedorea subjectifolia Hodel, Principes 39: 18, figs. 7–8. 25 Apr 1995. **TYPE: PANAMA. Panamá**. El Llano-Carti Road, 12 km from the Inter-American Highway, 30 Apr 1993, *D.R. Hodel, J. Benzie & C. Hubbuch. 1238*. Holotype: BH (1 sheet and 1 envelope); isotypes: MO, PMA.

Chamaedorea sullivaniorum Hodel & N.W. Uhl, Principes 34: 128, figs. 10, 12. 16 Aug 1990. **TYPE: PANAMA. Coclé**. El Valle de Antón, mesa area behind north rim of El Valle, 18 Dec 1987, *D.R. Hodel & R.J. Hodel 740A*. Holotype: BH (1 sheet and 1 envelope presently mixed with *740B* with some fragments merely annotated "*740*"); isotype: PMA.

Chamaedorea tenerrima Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 858. 1 Aug 1933. **NEOTYPE** (designated by D.R. Hodel, Chamaedorea Palms: 206. 1992): **GUATEMALA. Alta Verapaz**. Tactic, 6 Nov 1989, *D.R. Hodel & J.J. Castillo Mont 894*. Neotype: BH (1 sheet and 1 envelope); isoneotype: AGUAT.

Chamaedorea verapazensis Hodel & Cast.Mont., Phytologia 68: 390, fig. 1. mid Jun 1990. **TYPE**: **GUATEMALA. Baja Verapaz**. East slope of Sierra Chuacas, 8 Nov 1989, *D.R. Hodel & J.J. Castillo Mont 898A*. (1 sheet and 1 envelope, presently a mixture of *898A* and *898B* but fragments only labeled *898*); isotype: AGUAT.

Chamaedorea vistae Hodel & N.W. Uhl, Principes 34: 58, figs. 1–3. 22 May 1990. **TYPE**: **MEXICO. Oaxaca**. Vista Hermosa, 17.9 miles from bridge at Valle Nacional on road to Oaxaca, 24 Sep 1961, *H.E. Moore, Jr. & G.S. Bunting 8913*. Holotype: BH (1 box and 1 envelope, and 2 sheets).

Chamaedorea volcanensis Hodel & Cast.Mont., Phytologia 68: 393, fig. 2. mid Jun 1990. **TYPE**: **GUATEMALA. Quelzaltenango**. Southwest slope of Volcán Zunil, 11 Nov 1989, *D.R. Hodel & J.J. Castillo Mont 913A*. (1 sheet and 1 envelope, presently a mixture of *913A* and *913B* but fragments only labeled *913*); isotype: AGUAT.

Chamaedorea wedeliana L.H. Bailey, Gentes Herb. 6: 247, fig. 130. 4 Aug 1943. **TYPE**: **PANAMA. Bocas del Toro**. Water Valley, 11 Sep 1940, *H. von Wedel 719*. Lectotype (designated by D.R. Hodel, Chamaedorea Palms: 144. 1992, as "holotype"): MO; isolectotype: BH (frag.). NOTE: Bailey did not indicate where the holotype was deposited.

Chamaedorea whitelockiana Hodel & N.W. Uhl, Principes 34: 61, figs. 4–5. 22 May 1990. **TYPE**: **MEXICO. Oaxaca**. beyond San Gabriel Mixtepec along road from Puerto Escondido to Oaxaca, 4 Dec 1987, *D.R. Hodel & R.J. Hodel 935*. Holotype: BH (1 sheet and 1 envelope); isotype: MEXU.

Chamaedorea zamorae Hodel, Principes 34: 173, figs. 17–21. 12 Dec 1990. **TYPE**: **UNITED STATES. Hawaii**. Honolulu: Wahiawa Botanic Garden, from seeds gathered near Laguna de Arenal, Guanacaste, Costa Rica, by Harold Koopowitz, 20 Oct 1988, *D.R. Hodel & H. Bornhorst 830*. Holotype: BH (1 sheet and 1 envelope).

Chamaerops stauracantha Heynh., Alph. Aufz. Gew. 136. pre 16 Oct 1846. **NEOTYPE** (designated by R.J. Evans, Syst. Bot. Monogr. 46: 57. 1995): **MEXICO. Quintana Roo**. About 50 km south of Mexico Hwy 186 (Villahermosa-Chetumal) at Km 218.5 (3.8 km west of Nachicocum, 34 km west of intersection with Mexico Hwy 307 north to Cancun), 6 Oct 1990, *R.J. Evans 204*. Neotype: MICH; isoneotypes: BH (1 sheet), CHAP, MO, US.

Chambeyronia lepidota H.E. Moore, Gentes Herb. 11: 291. 27 Apr 1978. **TYPE**: **NEW CALEDONIA**. Roches d'Ouaième, between Hienghène and Tao, 21 Jun 1971, *H.E. Moore et al. 9960*. Holotype: BH (3 boxes, 2 envelopes and 1 packet); isotypes: NOU, P.

Chelyocarpus ulei Dammer, Notizbl. Bot. Gart. Berlin-Dahlem 7: 388 (as "44"). 15 Jan 1920. **TYPE**: **BRAZIL**. Amazonas: along the Río Juruá Mirim near Belém, Sep 1901, *E.H.G. Ule 5885*. Holotype: B; isotype: BH (frag.).

Chrysalidocarpus cabadae H.E. Moore, Principes 6: 108, fig. 64. 2 Jul 1962. **TYPE**: **CUBA**. Cienfuegos: Atkins Garden and Research Laboratory of Harvard University [now Jardin Botanico Soledad], Soledad, 20 Feb 1953, *H.E. Moore, Jr. 6517*. Holotype: BH (3 sheets, 2 box and 2 envelopes).

Chrysalidocarpus lutescens H. Wendl., Bot. Zeitung 36: 117. 22 Feb 1878. **NEOTYPE** (designated by *H.J.* Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 213. 1995, as "Lectotype"): **MADAGASCAR**. Ampasimanolotra: 5 km south of Ambila-Lemaitso, Nov 1986, *J. Dransfield et al. JD 6441*. Neotype: K; isoneotypes: BH (1 box, 1 envelope with 2 packets), P, TAN.

Chrysalidocarpus pembanus H.E. Moore, Principes 6: 109, fig. 63. 2 Jul 1962, as "*pembana*". **TYPE**: **UNITED REPUBLIC OF TANZANIA**. Zanzibar: Island of Pemba, Ngezi Forest, 21 Jan 1957, *R.O. Williams H117/56-7*. Holotype: BH (3 sheets and 1 envelope); isotype: EA, K.

Chrysallidosperma smithii H.E. Moore, Principes 7: 110, figs. 73–76. 23 Jul 1963. **TYPE: PERU.** Loreto: along the Yurimaguas-Tarapoto road between Km 13 and 14, 24 May 1960, *H.E. Moore, Jr., A. Salazar & E.E. Smith 8516*. Holotype: BH (2 sheets, 2 boxes, 4 envelopes, and 1 plastic bag with three small packets).

Clinostigma gronophyllum H.E. Moore, Principes 13: 71, figs. 5–7. 16 Jun 1969. **TYPE: SOLOMON ISLANDS**. Guadalcanal: Sabatan Mtn., Mount Popomanasiu, 25 Oct 1965, *E.J.H. Corner 108*. Holotype: BH (1 box and 1 envelope); isotype: K.

Clinostigma haerestigma H.E. Moore, Principes 13: 73, fig. 8. 16 Jun 1969. **TYPE: SOLOMON ISLANDS**. San Jorge: Astrolabe Harbour, 23 Sep 1965, *E.J.H. Corner 2700*. Holotype: K.; isotype: BH (1 box, 1 envelope, and 1 seed packet).

Coccothrinax acunana León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 128, fig. 3, also tab. 14, fig. 3. 15 Apr 1939. **TYPE: CUBA**. Santiago de Cuba: La Cueva del Aura, near Pico Turquino, Jun 1935, *H. León 16749* ("revolectado por el Ingeniero Julián Acuña y el Sr. José Carabia"). Holotype: HAC; isotype: BH (1 envelope with 1 packet). NOTE: The type, apparently, was gathered by Acuña and Carabia but distributed as a León collection.

Coccothrinax argentea (Lodd. ex Roem. & Schult.) Sarg. ex K. Schum. var. ***guantanamensis*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 135. 17 Jun 1939. **TYPE: CUBA**. Guantánamo: between Guantánamo and Fort Conde [≡ Conde Bluff Reservation], 31 Mar 1934, *H. León 16100* ("Col. Brother Hiosam"). Holotype: HAC; isotype: BH (1 sheet and 1 envelope). NOTE: The type, apparently, was made by Hiosam, but the specimens were distributed as a León collection.

Coccothrinax australis L.H. Bailey, Gentes Herb. 7: 365, figs. 149–152. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Quinam Bay, St. Patrick, 12 Mar 1946, *L.H. Bailey 118*. Holotype: BH (3 sheets and 1 envelope).

Coccothrinax boxii L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 113, figs. 24, 25. 19 Nov 1949. **LECTOTYPE: ANTIGUA**. Barbuda Island: The Highlands, 15 May 1937, *H.E. Box 669*. Lectotype (step 2, **designated here**): BH (1 sheet and 1 envelope); isolectotype: BH (1 envelope with a fragment packet), BM. NOTE: Although Bailey cited *Box 669* as the type, his original material at BH consists of two elements, the lectotype as designated here, and fragmentary material from the BM sheet. Thus, a step 2 lectotypification is required.

Coccothrinax clarensis León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 147. 17 Jun 1939. **TYPE: CUBA**. Villa Clara: along the banks of Río Primero east of Santa Clara, 27 Mar 1934, *H. León 16080*. Holotype: HAC; isotype: BH (1 sheet).

Coccothrinax clarensis León var. ***brevifolia*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 148. 17 Jun 1939. **TYPE: CUBA**. Camagüey: Cerro de Jobasí, 2 Jul 1937, *H. León 16926*. Holotype: HAC; isotype: BH (1 sheet).

Coccothrinax clarensis León var. ***perrigida*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 148. 17 Jun 1939. **TYPE: CUBA**. Ciego de Ávila: between Jatibonico and Ciego de Avila, 2 Jul 1937, *H. León & F.M. Victorin 16926*. Holotype: HAC; isotype: BH (1 sheet). NOTE: The collection site was formerly in Camagüey until Ciego de Ávila was established in 1976.

Coccothrinax discreta L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 104, figs. 11, 15–17. 19 Nov 1949. **LECTOTYPE (designated here): PUERTO RICO**. Island of Vieques: near Isabel II, May 1932, *L.H. Bailey 671*. Lectotype: BH (2 sheets and 1 seed packet). NOTE: Bailey cited two elements and the above is here designated the type following the annotations of Harold E. Moore, Jr.

Coccothrinax fragrans Burret, Kungl. Svenska Vetenskapsakad. Handl., ser. III, 6(7): 15. 22 Mar 1929. **TYPE: CUBA**. Santiago de Cuba: Santiago Bay, 25 Oct 1916, *E.L. Ekman 8031*. Holotype: S; isotype: BH (frag., 2 packets). NOTE: Associated with the type at BH is a mail envelope wherein is a leaf obtained by Robert W. Read that is associated with the number "2929" which alludes to a cited, non-flowering paratype gathered at Guantánamo by Ekman and assigned this number. The remaining fragments almost certainly are from *8031*.

Coccothrinax gundlachii León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 149. 17 Jun 1939. **TYPE: CUBA**. Santiago de Cuba: El Dean, south of Pico Turquino (as "Curquino" on specimens), Jul 1935, *J.T. Roig y Mesa, J.B. Acuña Galé & G.C. Bucher 6725*. Holotype: HAC; isotypes: BH (1 sheet and one packet), GH, MICH.

Coccothrinax hioramii León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 135. 17 Jun 1939, as "*Hiorami*". **TYPE: CUBA**. Guantánamo: west of the U.S. Naval Station near Caimanera, 31 Mar 1934, *H. León 16099*. Holotype: HAC.; isotype: BH (1 envelope). NOTE: León assigned his own number to the collection, even though he stated "recolectado por el Hno. Hioram, eon flores y fratos en marzo" and the original label on the envelope at BH confirms that the collection was made by Jean Frange Lagorce (1875–1936), variously known at Brother Hioram, Frère Hioram Jean, Hermano Hioram Jean or Hermano Hioram Juan.

Coccothrinax inaquensis Read, Principes 10: 30, figs. 1–6. 25 Mar 1966. **TYPE: UNITED STATES. Florida**. Dade Co: United States Department of Agriculture Plant Introduction Station, 24 Feb 1965, *R.W. Read 1377*. Holotype: BH (1 box and 1 envelope with a packet); isotype: FTG.

Coccothrinax jamaicensis Read, Principes 10: 133, figs. 1–10. 2 Dec 1966. **TYPE: JAMAICA**. St. Ann Parish: Queen's Highway, about 2 miles east of Rio Bueno, 15 Nov 1965, *R.W. Read 1563*. Holotype: BH (1 box and 1 envelope); isotypes: GH, S, UCWI.

Coccothrinax litoralis León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 138. 17 Jun 1939. **TYPE: CUBA**. Las Tunas: Playa de Muertos, Manati Bay [Bahia de Manati], near Manati, 3 Jan 1937, *H. León 16799*. Holotype: HAC; isotype: BH (1 sheet and 1 envelope).

Coccothrinax muricata León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 129. 15 Apr 1939. **TYPE: CUBA**. Camagüey: Sierra del Chorrillo, 31 Dec 1932, *H. León 15892*. Holotype: HAC; isotype: BH (1 sheet and 1 envelope).

Coccothrinax muricata León var. ***savannarum*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 130. 15 Apr 1939. **TYPE: CUBA**. Holguín: Sierra de Nipe, dry part of Sabana Risueña, Bayate de Miranda, Jan 1933, *León 15910*. Holotype: HAC; isotypes: BH (1 sheet and 1 envelope), US. NOTE: León assigned his own number to the collection, but stated "recolectado coa la cooperación del Sr. Valentin L. Held y del Sr. Oscar Heimer" and the original label on the envelope at BH confirms the collection was made by those two individuals.

Coccothrinax pseudorigida León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 145. 17 Jun 1939. **TYPE: CUBA**. Camagüey: Sabana de Santayana, near Camagüey, 9 Jul 1932, *H. León 15795*. Holotype: HAC; isotype: BH (1 envelope).

Coccothrinax pseudorigida León var. ***acaulis*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 146. 17 Jun 1939. **TYPE: CUBA**. Camagüey: Sabana de la Punta, camino de Cubitas, northeast of Camagüey, 8 Jul 1932, *H. León 15779*. Holotype: HAC; isotype: BH (1 sheet).

Coccothrinax readii H.J. Quero, Principes 24: 118, figs. 1–3. 8 Jul 1980. **TYPE: MEXICO**. Quintana Roo. 0.5 km north of Xel-Ha, 26 May 1979, *H.J. Quero 2755*. Holotype: MEXU; isotypes: BH (1 sheet and one packet), F, GH, NY.

Coccothrinax sabana L.H. Bailey, Gentes Herb. 8: 110, figs. 4, 22–23. 19 Nov 1949. **TYPE: NETHERLANDS ANTILLES**. Saba, 7 Feb 1948, *L.H. Bailey 406*. Holotype: BH (3 sheets).

Coccothrinax salvatoris León var. ***loricata*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 127. 15 Apr 1939. **TYPE: CUBA**. Camagüey: Silla del Cayo Romano, 4 Jan 1932, *H. León 16489*. Holotype: HAC; isotype: BH (1 sheet and one envelope).

Coccothrinax saxicola León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 141. 17 Jun 1939. **TYPE: CUBA**. Granma: Farallón del Dudoso y Baño, east of central Cape Cruz, west of Pilon, 30 Dec 1938, *H. León & F.M. Victorin 18618*. Holotype: HAC; isotype: BH (1 sheet and 1 packet).

Coccothrinax spissa L.H. Bailey, Gentes Herb. 4: 253, fig. 160. 30 Nov 1939. **LECTOTYPE (designated here): DOMINCAN REPUBLIC. SANTO DOMINGO.** Peravia: 3 km east of Bani, 27 Jul 1939, *L.H. Bailey 271*. Lectotype: BH (1 sheet). NOTE: There are two sheets at BH numbered *271* by Bailey, the lectotype noted above and a second sheet apparently collected at Bani on the same day. The latter, a single sheet, is considered here to be a syntype.

Coccothrinax victorinii León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 141. 17 Jun 1939, as "*Victorini*". **TYPE: CUBA.** Las Tunas: mouth of Río Tana [near Santa Rosalia], 29 Dec 1938, *H. León & F.M. Victorin 18604*. Holotype: HAC; isotype: BH (1 sheet).

Colpothrinax cookii Read, Principes 13: 13. Mar 1969. **TYPE: GUATEMALA. Alta Vera Paz.** Sepacuite Coffee Estate, a few miles north of Panzos, on northern slope of mountains leaving Polochic Valley, 22 Mar 1902, *O.F. Cook & R.F. Griggs 116*. Holotype: US; isotype: BH (1 box and 1 envelope).

Copernicia baileyana León, Revista Soc. Geogr. Cuba 4: 49, pl. 4, fig. 6, also pl. 5, fig. 2. 1931. **TYPE: CUBA.** Habana: Quinta Covadonga, Havana, 16 Apr 1931, *H. León 14831*. Holotype: HAC; isotypes: A, BH (2 sheets and 1 packet), F, GH, MT, NY, P, S, US.

Copernicia baileyana León var. ***laciniosa*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 224. 7 Nov 1936. **TYPE: CUBA.** Holguin: Finca Concepción, San Pedro de Cacocum, 27 Jul 1935, *H. León 16305*. Holotype: HAC; isotypes: A, BH (1 sheet), MT, NY, US.

Copernicia brittonorum León, Revista Soc. Geogr. Cuba 4: 49, pl. 3, fig. 4, also pl. 7, fig. 1. 1931. **TYPE: CUBA.** Matanzas: Montes de Bartolina, south of Zapata, 1 Aug 1930, *H. León 14615*. Holotype: HAC; isotypes: BH (1 sheet and 1 packet), F, GH.

Copernicia brittonorum León var. ***sabaloense*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 223, pl. 11, fig. 3. 7 Nov 1936. **TYPE: CUBA.** Pinar del Río: Hacienda Sabanalamar, El Sábalo, 20 Aug 1934, *H. León 16145*. Holotype: HAC; isotypes: BH (1 sheet and 1 packet), NY, US.

Copernicia clarensis León, Revista Soc. Geogr. Cuba 4: 45, pl. 4, fig. 1. 1931. **TYPE: CUBA.** Villa Clara: Loma de Belén, near Cerro Calvo, 29 Jul 1931, *H. León 14956*. Holotype: HAC; isotypes: A, BH (1 sheet and 1 packet), F, GH, MT, NY, US.

Copernicia clarkii León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 213, pl. 10, fig. 2. 7 Nov 1936. **LECTOTYPE** (designated by B.E. Dahlgren & S.F. Glassman, Gentes Herb. 9: 168. 1963, as "type"): **CUBA.** Oriente: Portrero de Guabino, Sep 1932, *S. Clark 15852*. Lectotype: HAC; isolectotypes: BH (1 sheet and 1 packet), F, GH, NY. NOTE: León cited both *León 15746* and *León 15852*, attributing the latter to himself rather than the collector. The first collection was gathered in July.

Copernicia* × *escarzana León, Revista Soc. Geogr. Cuba 4: 42. 1931. **LECTOTYPE** (designated by B.E. Dahlgren & S.F. Glassman, Gentes Herb. 9: 136. 1963, by implication via the use of "isoneotypes" for the isolectotypes cited here): **CUBA.** Holguin: Bahía del Macío, east of Casilda, Trinidad, 27 Jun 1931, *H. León 14921*. Lectotype: not determined, to be sought at HAC; isolectotypes: BH (1 sheet and 1 packet), MT, NY.

Copernicia escelsa León, Revista Soc. Geogr. Cuba 4: 56, pl. 6, figs. 1–2, also pl. 7, figs. 2, 3, 5. 1931. **TYPE: CUBA.** Sancti Spíritus: savannah near Esteso de las Guásimas, Mapos, east of Guasimal, 22 Jul 1931, *H. León 14984*. Holotype: HAC; isotypes: BH (2 sheets and 2 packets), F, GH, US.

Copernicia fallaensis León, Revista Soc. Geogr. Cuba 4: 21, pl. 4, fig. 4–5, also pl. 5, fig. 1. 1931. **TYPE: CUBA.** Camagüey: de Falla, Aug 1930, *H. León 14671*. Holotype: HAC; isotypes: A, BH (2 sheets and 1 packet), GH, MT, NY, S, US.

Copernicia glabrescens H. Wendl. ex Becc. var. ***havanensis*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 217, pl. 12, fig. 1. 7 Nov 1936. **TYPE: CUBA.** Habana: Finca San Francisco, east of Batabaó, 15 Jan 1931, *H. León 14756*. Holotype: HAC; isotypes: BH (1 sheet), MT, NY, US.

Copernicia holguinensis León, Revista Soc. Geogr. Cuba 4: 48. 1931. **LECTOTYPE** (step. 1, designated by B.E. Dahlgren & S.F. Glassman, Gentes Herb. 9: 216–217. 1963, by implication via the use of "isotypes" for the isolectotypes cited here): **CUBA**. Holguín: Holguín, May 1931, *J.G. Castañeda & G. Aguayo 14879*. Lectotype (step 2, **designated here**): HAC; isolectotypes:: BH (1 sheet and 1 envelope with a packet), GH, MT, NY, US. NOTE: Under the heading of *14879* are what might be a series of independent collections. That at GH was gathered by Castañeda; that at NY is attributed to Sr. Garcia Feria; and at BH the collector's name appears to be J. Garbastacedo although the specimens themselves bear tags with *14879* and "Bro. Leon. Cuba / May 1931". There is no original label associated with the US sheets and the new label attributes the sheets to *León* only. Originally, León wrote: "Sabanas cerca de Holguín (Oriente); frutos maduros en Mayo, No. 14879. Esta especie recolectada por el Dr. José García Castañeda y el Dr. Guillermo Aguayo parece afín de la *C. yarey*" [This species collected by … Castañeda … and Aguayo is close to *C. yarey*]. Dahlgren and Glassman considered all of the material to be a lectotype and consider all of the seemingly discordant elements to have been gathered by Castñeda and Aguayo. The broad interpretation of the Dahlgren and Glassman is retained here but with some trepidation.

Copernicia hospita Mart., Hist. Nat. Palm., ed. 1, 3: 242. 23 Sep 1838. **TYPE**: **CUBA**.. "Crescit in Cubae australis campis montosis aridis copiose," 1823, *E.F. Poeppig s.n.* Holotype: BR; isotype: BH (frag.).

Copernicia humicola León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 221, pl. 12, fig. 3. 7 Nov 1936. **TYPE**: **CUBA**. Granma: El Varadero, Niquero, 2 Aug 1935, *H. León 14379*. Holotype: HAC; isotypes: BH (1 sheet and 1 packet), NY, US.

Copernicia longiglossa León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 210. 7 Nov 1936. **TYPE**: **CUBA**. Las Tunas: Potraero de Guabino, Dumañuecos, 30 Dec 1933, *H. León 16044*. Holotype: HAC; isotypes: BH (1 envelope), NY, US.

Copernicia molinetii León, Revista Soc. Geogr. Cuba 4: 55, pl. 5, fig. 6, also pl. 7, fig. 4. 1931, as "Molineti." **TYPE**: **CUBA**. Sancti Spíritus: near Estero de las Guásimas, Mapos, east of Guasimal, 24 Jun 1931, *H. León 14912*. Holotype: HAC; isotypes: A, BH (1 sheet and 1 packet), GH, MT, NY, P. S, US.

Copernicia molinetii León var. ***cuneata*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 216. 7 Nov 1936. **TYPE**: **CUBA**. Las Tunas: Potraero de Guabino, Dumañuecos, 20 Sep 1932, *H. León 15959*. Holotype: HAC; isotypes: BH (1 sheet and 1 packet), US.

Copernicia occidentalis León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 218, pl. 11, fig. 1. 7 Nov 1936. **TYPE**: **CUBA**. Pinar del Río: Hacienda Sabanalamar, El Sábalo, 20 Aug 1934, *H. León 16144*. Holotype: HAC; isotypes: BH (1 envelope), US.

Copernicia roigii León, Revista Soc. Geogr. Cuba 4: 47, pl. 3, fig. 2, also pl. 4, fig. 2. 1931. **TYPE**: **CUBA**. Las Tunas: Puerto Padre, Jul 1931, *H. León 14979*. Holotype: HAC; isotypes: A, BH (1 sheet and 1 packet), GH, MT, NY, S, US. NOTE: The original León label indicates that the type was collected by "Max. Curbelo" of whom no other information is available.

Copernicia × ***sueroana*** León, Revista Soc. Geogr. Cuba 4: 44, pl. 3, fig. 2, also pl. 4, fig. 2. 1931. **TYPE**: **CUBA**. Cienfuegos: Sabana del Espinal between Antón Recio and Yaguaramas, 24 Dec 1930, *H. León & J.I. Pérez 14727*. Holotype: HAC; isotype: BH (1 sheet), GH, MT, NY, S. NOTE: The taxon was later considered not to be a hybrid (León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 215. 7 Nov 1936).

Copernicia × ***sueroana*** León var. ***semiorbicularis*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 216. 7 Nov 1936. **TYPE**: **CUBA**. Las Tunas: Finca de Santa Rita, Dumañuecos, 7 Jul 1932, *H. León 15747*. Holotype: HAC; isotypes: BH (1 sheet), US.

Copernicia × ***textilis*** León, Revista Soc. Geogr. Cuba 4: 54. 1931, pro sp. **TYPE**: **CUBA**. Sancti Spíritus: Finca La Vega, between Guasimal and Mapos, 22 Jul 1931, *H. León 14980*. Holotype: HAC; isotypes: BH (1 sheet), F, NY. NOTE: The taxon is considered to be a hybrid taxon by Dahlgren and Glass (Gentes Herb. 9: 199. 1963)..

Copernicia* × *vespertilionum León, Revista Soc. Geogr. Cuba 4: 57, pl. 3, fig. 2, also pl. 4, fig. 2. 1931. **TYPE: CUBA**. Sancti Spíritus: near Estero de la Guásimas, near Guasimal and Mapos, 22 Jul 1931, *H. León, Brother Regis & R. Valdivia 14983*. Holotype: HAC; isotypes: BH (2 sheets), NY. NOTE: The collectors reported here are taken from the NY sheets; the original León label at BH only attributes the collection of the first collector. There is no reference to the others in the published protologue. The taxon was later considered not to be a hybrid (León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 212. 7 Nov 1936).

Copernicia yarey Burret var. ***robusta*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 10: 221. 7 Nov 1936. **TYPE: CUBA**. Pinar del Río: Hacienda Sabanalamar, Mantí, 28 Dec 1933, *H. León & S. Clark 16010*. Holotype: HAC; isotypes: BH (1 sheet and 1 small envelope), F, NY, US.

Cornera pycnocarpa Furtado, Gard. Bull. Singapore 14: 523. 15 Feb 1955. **TYPE: MALAYSIA**. Kemaman: Ulu Bendong near Kajang, 8 Nov 1935, *E.J.H. Corner 30293*. Holotype: SING; isotypes: BH (1 sheet and 1 packet), K.

Corypha nana Kunth in F.W.H.A. von Humboldt, A.J.A. Bonpland & C.S. Kunth, Nov. Gen. Sp. 1: 299. late Aug 1816. **NEOTYPE** (designated by R.J. Evans, Syst. Bot. Monogr. 46: 53. 1995): **MEXICO. Jalisco**. along Mexico Hwy 200 (Monzanillo-Puerto Vallarta) at Km 187.7 (0.6 km south of bridge over Rio Horcones, 18.3 km north of bridge over Rio El Tuito), 7 Dec 1991, *R.J. Evans 239*. Neotype: MICH; isoneotype: BH (1 sheet and 1 envelope), CHAP, MO.

Corypha palmetto Walter, Fl. Carol. 119. Apr–Jun 1788. **NEOTYPE** (designated by S. Zona, Aliso 12: 646. 1990): **UNITED STATES. Florida**. Duval Co.: near Jacksonville, Jul [1894?], *A.H. Curtiss 2677*. Neotype: NY; isoneotype: BH (1 sheet), F, GA, GH, MICH, MO, US.

Cryosophila argentea Bartlett, Publ. Carnegie Inst. Wash. 461(2): 40, pl. 2–5. 10 Jul 1935. **TYPE: BELIZE. Belize**. Cornhouse Creek, Manatee River, 31 Jan 1931, *H.H. Bartlett 11288*. Holotype: MICH; isotype: BH (frag.).

Cryosophila grayumii R. Evans, Syst. Bot. Monogr. 46: 42. 6 Oct 1995. **TYPE: COSTA RICA. Puntarenas**. Northeast slope of Fila de Cal, ca. 15 m down from the Ciudad Neily-San Vito de Coto Brus Road, 8.2 km north of Ciudad Neily, 19 Sep 1989, *R.J. Evans 174*. Holotype: MICH; isotypes: BH (1 sheet and 1 envelope), INB, MO.

Cryosophila kalbreyeri (Dammer ex Burret) Dahlgr. subsp. ***cogolloi*** R. Evans, Syst. Bot. Monogr. 46: 50. 6 Oct 1995. **TYPE: COLOMBIA**. Antioquia: 1.2 km due east of Rio Claro, ca. 0.5 km northwest of the Medellin-Bogota highway, 4.3 km northeast of bridge over Rio Claro, 29 Feb 1992, *R.J. Evans 247*. Holotype: JAUM; isotypes: BH (1 sheet and 1 envelope), COL, MICH, MO.

Cyphophoenix nucele H.E. Moore, Gentes Herb. 11: 165. 11 Nov 1976. **TYPE: NEW CALEDONIA**. Lifou: Kouanoplouéno near Dosip, 19 Feb 1974, *H.S. McKee 28200*. Holotype: BH (1 box and 1 envelope with 2 packets).

Cyrtostachys elegans Burret, Notizbl. Bot. Gart. Berlin-Dahlem 13: 472. 30 Jun 1937. **LECTOTYPE (designated here): INDONESIA**. West Java: Botanical Garden, Bogor [formerly Buitenzorg], garden plot II, F. 17, originally found in New Guinea, Apr–Mai 1936, *C.X. Furtado 31128*. Lectotype: K (4 sheets); isolectotypes: BA (1 sheet and 1 packet), GH. NOTE. The specimen at B used by Burret to establish the name is no long extant and thus a lectotype is proposed.

Cyrtostachys glauca H.E. Moore, Principes 10: 86, figs. 1–2. 2 Sep 1966. **TYPE: PAPUA NEW GUINEA**. Morobe: along a logging road just beyond bridge over Markham River on road from Lae to Bulolo, 7 Mar 1964, *H.E. Moore 9272*. Holotype: BH (1 box, 1 sheet and 1 packet).

Daemonorops ingens J. Dransf. in A.C. Jermy, Bot. J. Linn. Soc. 81: 20, fig. 6. 4 Nov 1980. **TYPE: MALAYSIA**. Sarawak: Mile 13 along the Bintulu-Miri Road, 4 Nov 1968, *J. Dransfield 780*. Holotype: K; isotypes: BH (1 box, 1 envelope).

Daemonorops laciniata Furtado, Gard. Bull. Singapore 14: 75. 1 Aug 1953, as "*laciniatus*". **TYPE: MALAYSIA**. Perak: Kroh, Bukit Chrom., 24 May 1937, *C.X. Furtado 33016*. Holotype: SING; isotypes: B, (1 sheet and 1 envelope), BO, K, L, PNH.

Daemonorops lasiospatha Furtado, Gard. Bull. Straits Settlem. 8: 351. 28 Oct 1935, as "*lasiospathus*". **TYPE: MALAYSIA**. Johore: Sungei Kayu Ara, at the 12.5 mile mark on the Mawai-Jemaluang Road, 23 Jun 1935, *E.J.H. Corner & C.X. Furtado 29482A*. Holotype: SING; isotypes: B, (1 sheet and 1 packet), BO, K, L.

Daemonorops maculata J. Dransf., Kew Bull. 45: 76. 16 Feb 1990. **TYPE: MALAYSIA. BORNEO**. Sarawak: Kuching, Seroit Path, Bako National Park, 16 Jun 1981, *J.D. Dransfield et al. 5927*. Holotype: K; isotypes: BH (1 sheet and 1 envelope), BO, L, PNH, SAR).

Daemonorops malaccensis Mart. ex Walp., Ann. Bot. Syst. 3: 475. 24–25 Aug 1852. **TYPE: MALAYSIA**. Malacca: Malacca, 1843, *W. Griffith s.n.* Holotype: BR; isotype: BH (frag.). NOTE: The Martius circumscription included the unnamed *Calamus petiolaris* var. B Griff. (Calcutta J. Nat. Hist. 5: 94. 1845) and the BR sheet, indeed, is composed of the "two specimens" mentioned by Griffith in a footnote.

Daemonorops nurii Furtado, Gard. Bull. Singapore 14: 85. 1 Aug 1953. **TYPE: MALAYSIA**. Pahang: Boh Plantations, Cameron Highlands, 24 May 1937, *M. Nur 32853*. Holotype: SING; isotypes: B, BH (1 sheet and 1 packet), K, L.

Daemonorops verticillaris (Griff.) Mart. var. ***straminea*** Furtado, Gard. Bull. Singapore 14: 147. 1 Aug 1953, as "*stramineus*". **TYPE: MALAYSIA**. Negri Sembilan: Beremban, 17 Jun 1937, *C.X. Furtado 33126*. Holotype: SING; isotypes: AA, BH (2 sheets and 2 envelopes), BO, CALC, K, KEP, L, PAR, PNH.

Dahlgrenia ptariana Steyerm., Fieldiana, Bot. 28: 82, fig. 11. 18 May 1951. **TYPE: VENEZUELA**. Bolívar: southeast facing slopes of Ptari-tepuí, 10–11 Nov 1944, *J.A. Steyermark 60044*. Holotype: F; isotype: BH (frag.).

Desmoncus apureanus L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 183, fig. 77. 19 Nov 1979. **TYPE: VENEZUELA**. Apure: west of San Fernando de Apure on road to Curruscao, 15 Apr 1939, *C.E. Chardon*. Holotype: BH (1 sheet and 1 envelope).

Desmoncus brittonii L.H. Bailey, Gentes Herb. 7: 371, fig. 154. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Arena Road, 7 Mar 1946, *L.H. Bailey 172*. Holotype: BH (1 sheet).

Desmoncus demeraranus L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 181, fig. 75. 19 Nov 1979. **TYPE: GUYANA**. Demerara: east bank of Demerara River near Craig Village between Georgetown and Atkinson Field, 20 Feb 1948, *L.H. Bailey 418*. Holotype: BH (1 box with 3 sheets and 1 packet).

Desmoncus hartii L.H. Bailey, Gentes Herb. 7: 369, fig. 153. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Mayaro, Mar 1922, *L.H. Bailey 619a*. Holotype: BH (5 sheets).

Desmoncus kaieteurensis L.H. Bailey in B. Maguire, Bull. Torrey Bot. Club 75: 115, fig. 12. 28 Jan 1948. **TYPE: GUYANA**. Potaro-Siparuni: Trail from Tukeit to Kaiatuk Plateau, 29 Apr 1944, *B. Maguire & D.B. Fanshawe 23093*. Holotype: BH (1 sheet); isotypes: K, NY, U.

Desmoncus maguirei L.H. Bailey in B. Maguire, Bull. Torrey Bot. Club 75: 108, fig. 11. 28 Jan 1948. **TYPE: SURINAME**. Brokopondo: Kwakoegron, 19 Oct 1944, *B. Maguire & G. Stahel 25011*. Holotype: BH (1 sheet); isotype: NY.

Desmoncus mirandanus L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 183, fig. 76. 19 Nov 1979. **TYPE: VENEZUELA**. Miranda: Siquire Valley, Cárdenas, Guninand Estate, 6 Apr 1917, *H. Pittier 7078*. Lectotype (step 2, **designated here**): US (4 sheets); isolectotype: BH (1 packet). NOTE: Although Bailey designated *Pittier 7078* as the type of *D. mirandanus*, he did not indicate where he was depositing the holotype. As the only original element at BH is a single packet of seeds, but detailed photographs of the US specimens are at BH, the US element is here designated as a step 2 lectotypification.

Desmoncus peraltus L.H. Bailey, Gentes Herb. 7: 373, fig. 155. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Arena Road, 17 Jan 1946, *L.H. Bailey 172*. Holotype: BH (2 sheets).

Desmoncus prestoei L.H. Bailey, Gentes Herb. 6: 215, fig. 110. 4 Aug 1943. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: [unreadable], sin dat., *W.E. Broadway 5368*. Lectotype **(designated here)**: BH (2 sheets); isotype: TRIN. NOTE: Apparently of the three sheets of *5368* once in the Trinidad Herbarium (TRIN), Bailey was allowed to take one which was arranged as two sheets at BH, and the BH element is now designated as the holotype via lectotypification.

Desmoncus tobagonis L.H. Bailey, Gentes Herb. 7: 371, fig. 155. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Tobago: Mile End, 22 Feb 1911, *W.E. Broadway 4077*. Lectotype, designated by A. Henderson, Phytotaxa 35: 24. 2011, as "holotype": NY; isolectotype: BH (frag.), K, U. NOTE: Bailey did not indicate where the holotype was deposited.

Desmoncus vacivus L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 186, fig. 79. 19 Nov 1979. **TYPE: COLOMBIA**. Río Igaraparaná, los alredadores de La Chorrera, 4–10 Jun 1942, *R.E. Schultes 3941*. Holotype: BH (1 sheet and 2 packets).

Desmoncus velezii L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 186, fig. 77. 19 Nov 1979. **TYPE: VENEZUELA**. Apure: Puerto Paez, 5 Apr 1946, *I. Velez 2308*. Lectotype, designated by A. Henderson, Phytotaxa 35: 24. 2011, as "holotype": US; isolectotype: BH (frag.). NOTE: Bailey did not indicate where the holotype was deposited.

Drymophloeus lepidotus H.E. Moore, Principes 13: 75. 16 Jun 1969. **TYPE: SOLOMON ISLANDS**. San Cristobal: east of Wainoni, 10 Aug 1965, *G. Dennis 53*. Holotype: BH (1 box, 1 small envelope, and 2 packets).

Dypsis albofarinosa Hodel & Marcus, Palms 48: 91, figs. 1–4. 11 Jun 2004. **TYPE: UNITED STATES. Hawaii**. Hawaii Co.: cultivated in the garden of Jeff Marcus, Hilo, 7 Jul 2003, *D.R. Hodel 1944*. Holotype: K; isotype: BH (1 sheet and 1 envelope).

Dypsis ambositrae Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 195, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Ambositra: 8 km west-northwest of Ilaka Afovoany, 31 Jul 1992, *H.J. Beentje & H.R. Andriampaniry 4742*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis antanambensis Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 368, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Mananara Avaratra: Mananara Avaratra Biosphere Reserve, 10 km west of Antanambe, 15 Apr 1992 *H.J. Beentje, J. Dransfield & H.R. Andriampaniry 4629*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis beentjei J. Dransf. in J. Dransfield & H. Beentje, Palms of Madagascar: 401, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Mananara Avaratra: 10 km west of Antanambe, 4 Apr 1992, *H.J. Beentje, J. Dransfield & H.R. Andriampaniry 4626*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis moorei Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 354, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Antalaha: across Onive River from Ambatobe, Apr 1971 *H.E. Moore, Jr. 9917*. Holotype: P; isotypes: BH (1 box, 1 envelope), K.

Dypsis ovobontsira Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 180, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Tolanaro: Saint Luce forest, 21 Apr 1992 *H.J. Beentje, J. Dransfield & H.R. Andriampaniry 4645*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis pachyramea J. Dransf. in J. Dransfield & H. Beentje, Palms of Madagascar: 404, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Maroantsetra: Masoala Peninsula, Hiaraka, hill near village, 8 Oct 1986 [10 Feb 1988 on sheet], *J. Dransfield et al. JD 6451*. Holotype: K; isotypes: BH (1 sheet), MO, P, TAN.

Dypsis paludosa J. Dransf. in J. Dransfield & H. Beentje, Palms of Madagascar: 343, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Ampasimanolotra: Ambila-Lemaitso, 5 km south of village,

14 Nov 1986, *J. Dransfield et al. JD 6439*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, TAN.

Dypsis prestoniana Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 167, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Midongy: 6 km east-northeast of Midongy on the Vangaindrano Road, 17 May 1992, *H.J. Beentje & H.R. Andriampaniry 4672*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis robusta Hodel, Marcus & J. Dransf., Palms 49: 129, figs. 1. 9 Sep 2005. **TYPE: HAWAII**. Hawaii Co.: cultivated in the garden of Jeff Marcus, Hilo, 22 Oct 2004, *D.R. Hodel 1969*. Holotype: K; isotype: BH (1 sheet and 2 envelopes).

Dypsis saintelucei Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 178, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Tolanaro: Saint Luce forest, 13 Sep 1992, *H.J. Beentje 4760*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis scandens J. Dransf. in J. Dransfield & H. Beentje, Palms of Madagascar: 255, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Ifanadiana: about 10 km east of Ifanadiana, 6 Nov 1994, *J. Dransfield et al. JD7515*. Holotype: K; isotypes: BH (1 sheet and 1 envelope), P, TAN.

Dypsis serpentina Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 206, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Mananara Avaratra: Mananara Avaratra Biosphere Reserve, 10 km west of Antanambe, 21 Apr 1992 *H.J. Beentje, J. Dransfield & H.R. Andriampaniry 4646*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis tenuissima Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 315, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Tolanaro: 13 km north of Ezoambo, 1 Mar 1992 *H.J. Beentje & H.R. Andriampaniry 4592*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Dypsis thermarum J. Dransf. in J. Dransfield & H. Beentje, Palms of Madagascar: 377, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Fianarantsoa: Ranomafana, Ranomafana National Park, 4 Nov 1994, *J. Dransfield et al. JD7511*. Holotype: K; isotypes: BH (1 sheet and 1 envelope), MO, P, TAN.

Dypsis trapezoidea J. Dransf. in J. Dransfield & H. Beentje, Palms of Madagascar: 284, figs. 10 Nov 1995. **TYPE: MADAGASCAR**. Mananjary: Fianadiana, Mt. Vatovavy, 5 Nov 1994, *J. Dransfield et al. JD7512*. Holotype: K; isotypes: AAU, BH (1 sheet and 1 envelope), MO, P, TAN.

Erythea clara L.H. Bailey, Gentes Herb. 6: 197. 4 Aug 1943. **LECTOTYPE** (designated by R.S. Felger & E. Joyal, Aliso 18: 9. 1999, as "holotype"): **MEXICO. Sonora**. Nacapule Canyon, 14 Apr 1936, *L.H. Bailey 263*. Lectotype: BH (1 box with 1 packet and 1 sheet with 1 packet). NOTE: A type was not cited by Bailey in 1943, rather he referred to an earlier account (Gentes Herb. 4: 114. 1937) of *E. roezlii* (D'Ancona) Becc. (Ann. Roy. Bot. Gard. (Calcutta) 13: 320. 1933, based on *Brahea roezlii* D'Ancona, Bull. Reale Soc. Tosc. Ortic. 8: 79. 1883) where he alluded to four elements. The rationale for proposing a new species was Bailey's realization that *E. roezlii* was a synonym of *E. armata* (S. Watson) S. Watson (Bot. Calif. 2: 212. 1880, based on *B. armata* S. Watson, Proc. Amer. Acad. Arts 11: 146. 1876). When A. Espejo & A.R. López-Ferrari proposed *Brahea clara* (L.H. Bailey) Espejo & López-Ferrari (Sida 15: 617. 1993) they stated "TYPE: MEXICO. SONORA: San Pedro Bay, *Johnston 4340* (BH)," one of the syntypes mentioned in 1937, and as such this would be an effective step-one lectotypification were it not "in serious conflict with the protologue and another element is available that is not in conflict with the protologue" (Art. 9.19(b); McNeill et al. 2012). It is obvious that Espejo and López-Ferrari never consulted the collections at Cornell, for had they done so they would have discovered no such specimen exists. All that Bailey deposited at BH was a photographic image of the *I.M. Johnston 4340* specimen at US. This specimen consists of an overly mature inflorescence with a few fruits (mainly in a packet). This sheet does not indicate the nature of the plant, its leaves, inflorescences or flowers, all detailed in Bailey's description and represented in his own collection (no. *263*). Thus, the

1993 lectotypification of *E. clara* on a non-existing specimen at BH is rejected and a later, albeit also an inadvertent lectotypification, based on an actual study of the syntypes, is accepted.

Euterpe beardii L.H. Bailey, Gentes Herb. 7: 426, figs. 196–198. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Leasehold Reservation, St. Patrick, 30 Jan 1946, *L.H. Bailey 122*. Holotype: BH (2 sheets and 1 envelope).

Euterpe dasystachys Burret, Bot. Jahrb. Syst. 63: 62. 1929. **NEOTYPE** (designated by Bernal G. et al., Taxon 38: 102. 1989): **COLOMBIA**. Santander: 7 km south of the Bucaramanga-Pamplona road, 18 Mar 1987, *R. Bernal G. & G. Galeano 1353*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope), HUA, K, NY.

Euterpe confertiflora L.H. Bailey, Gentes Herb. 7: 427, figs. 196, 199. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Trinidad: Leasehold Reservation, St. Patrick, 30 Jan 1946, *L.H. Bailey 123*. Holotype: BH (1 sheet).

Euterpe dominicana L.H. Bailey, Gentes Herb. 4: 375, fig. 237. 30 Dec 1940. **TYPE: DOMINICA**: Pegoua River in the vicinity of Deux Branches, Concorde Valley, 19 Apr; 6–7 May 1940, *W.H. Hodge & B.T. Hodge 3494*. Holotype: BH (3 sheets). NOTE: There is no evidence that the holotype is composed of anything other than a single gathering in spite of the different dates.

Euterpe jenmanii C.H. Wright, Bull. Misc. Inform. Kew 1906: 203. Aug 1906. **LECTOTYPE** (designated by S. Zona, Fl. Neotrop. Monogr. 71: 25. 1996): **GUYANA**: Georgetown, [1884], *G.S. Jenman 2057*. Lectotype: K; isolectotype: BH (frag.).

Euterpe pertenuis L.H. Bailey, Gentes Herb. 7: 425, figs. 195–196. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Tobago: Roxborough, 7 Feb 1946, *L.H. Bailey 121*. Holotype: BH (1 sheet and 1 envelope).

Euterpe roseospadix L.H. Bailey, Gentes Herb. 6: 201, fig. 102. 4 Aug 1943. **TYPE: PANAMA. Chiriquí**. near Bajo Chorro, 20–22 Jul 1940, *R.E. Woodson, Jr. & R.W. Schery 623*. Lectotype, designated by A. Henderson & G.A. Galeno-Garces, Fl. Neotrop. Monogr. 72: 67. 1996, as "holotype": BH (1 sheet and 1 packet); isolectotypes: BH (frag.), MO. NOTE: Bailey did not indicate where the holotype was deposited.

Euterpe tobagonis L.H. Bailey, Gentes Herb. 7: 425, figs. 195, 196. 27 Dec 1947. **TYPE: TRINIDAD AND TOBAGO**. Tobago: Pigeon Peak, 9 Feb 1946, *L.H. Bailey 135*. Holotype: BH (2 sheets and 1 envelope).

Geonoma allenii L.H. Bailey, Gentes Herb. 6: 204, fig. 104. 4 Aug 1943. **TYPE: PANAMA. Coclé**. hills north of El Valle de Anton, 10 May 1942, *P.H. Allen 2947*. Lectotype, designated by J.G. Wessels Boer, Geonomoid Palms: 70. 1968, as "holotype"): BH (1 sheet); isolectotype: MO. NOTE: Bailey did not indicate where the holotype was deposited

Geonoma condensata L.H. Bailey, Gentes Herb. 6: 209, fig. 106. 4 Aug 1943. **TYPE: PANAMA. Bocas del Toro**. Near Chiriqui Lagoon, Isla Colon, 16 Nov 1941, *L.H. Bailey 2972*. Lectotype, designated by J.G. Wessels Boer, Geonomoid Palms: 69. 1968: BH (1 sheet and 1 packet); isolectotype: MO. NOTE: Bailey did not indicate where the holotype was deposited.

Geonoma costatifrons L.H. Bailey, Gentes Herb. 6: 206, fig. 105. 4 Aug 1943. **TYPE: PANAMA. Canal Zone**. Upper Río Pequini, Madden Lake area, near the police station, 29 Jul 1941, *A.G.B. Fairchild & D. Jobbins 2639*. Lectotype, designated by J.G. Wessels Boer, Geonomoid Palms: 71. 1968, as "holotype": BH (2 sheets, 1 envelope and 1 packet); isolectotype: MO. NOTE: Bailey did not indicate where the holotype was deposited.

Geonoma deneversii A.J. Hend., Phytotaxa 17: 62, pl. 21–24. 18 Feb 2011. **TYPE: PANAMA. Bocas del Toro**. east of Gualaca-Chiriquí Grande road, 10 miles north of continental divide, 1 mile along a side road to the east, 19 January 1989, *G. de Nevers, F. Almeda & G. McPherson* 8823. Holotype: NY; isotypes BH (1 sheet and 1 envelope), K, MO).

Geonoma divisa H.E. Moore, Gentes Herb. 12: 25, fig. 1. 29 Feb 1980. **TYPE: COLOMBIA**: Choco: north ridge of Alto de Buey, above Dos Bocas del Río Mutatá, east-southeast of El Valle, 8 Aug 1976, *A. Gentry & M. Fallen 17438*. Holotype: BH (1 sheet); isotype: MO.

Geonoma dominicana L.H. Bailey, Gentes Herb. 4: 232, fig. 147. 31 May 1939. **TYPE: DOMINICA**: Morne Colla Anglais, Sylvania, 10–23 Aug 1938, *W.H. Hodge 307*. Holotype: BH (2 sheets); isotype: GH.

Geonoma epetiolata H.E. Moore, Gentes Herb. 12: 28, fig. 2. 29 Feb 1980. **TYPE: PANAMA: Veraguas**. Cuabal (Río Dos Bocas), about 16 km northwest of Santa Fé, 15–16 Nov 1974, *H.E. Moore, Jr. 4777*. Holotype: BH (1 sheet and 1 packet); isotype: MO.

Geonoma gentryi A.J. Hend., Phytotaxa 17: 78, pl. 38. 18 Feb 2011. **TYPE: COLOMBIA**. Chocó: 2 km south of Las Animas on road to Istmina, 13 Aug 1976, *A. Gentry & M. Fallen 17623*. Holotype: MO; isotype: BH (1 sheet and 1 packet).

Geonoma hodgeorum L.H. Bailey ex Hodge, Caribbean Forest. 3: 108, fig. 6. 1942. **TYPE: DOMINICA**: summit of Morne Trois Pitons, 23 Feb 1940, *W.H. Hodge & B.T. Hodge 1430*. Holotype: BH (2 sheets and 2 envelopes); isotypes; GH, NY, MASS.

Geonoma plurinervia Burret, Notizbl. Bot. Gart. Berlin-Dahlem 15: 99. 15 Feb 1940. **LECTOTYPE** (step 1, designated by Wessels Boer, Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 58: 133. 1968): **BRAZIL**: Mato Grasso: Campo Grande, Capão Bonito, 5 Sep 1936, *W.A. Archer & A. Gehrt 74*. Lectotype (step 2, **designated here**): US; isolectotypes: BH (1 sheet), SP. NOTE: Burret cited two collections, and the above collection was inadvertently designated as a lectotype for which a step 2 lectotypification is proposed here.

Geonoma polyneura Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 500. 30 Mar 1932. **TYPE: GUATEMALA. Alta Vera Paz**. Near Finca Sepacuite, 19 Mar 1902, *O.F. Cook & R.F. Griggs 36*. Holotype: US; isotype: BH (1 sheet).

Geonoma stenothyrsa Burret, Bot. Jahrb. Syst. 63: 197. 1930. **NEOTYPE** (designated by Bernal G. et al., Taxon 38: 105. 1989): **COLOMBIA**. Antioquia: 5.5 km from El Chocó on the Granada-San Luis road, 20–21 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1387*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope with 1 packet), FTG, HUA, K, MO, NY.

Gulubia microcarpa Essig, Principes 26: 173. 2 Feb 1982. **TYPE: FIJI**. Viti Levu: ridges about 8.5 miles inland from Ngaloa, 22 Mar 1980, *H.E. Moore, Jr. & R.H. Phillips 10543*. Holotype: BH (1 box and 2 envelopes).

Gynestum deversum Poit., Mém. Mus. Hist. Nat. 9: 390, pl. 18. 1822. **TYPE: FRENCH GUIANA**. Mana: "sur la rive gauche de la Mana," Dec, sin. ann. [probably 1820 or 1821], *P.A. Poiteau s.n.* Holotype: P; isotypes: BH, P. NOTE: The specimens are without any location data or date except for the word "GUIANE". Therefore, the two cited isotypes can only be tentatively declared as such.

Halmoorea trispatha J. Dransf. & N.W. Uhl, Principes 28: 166, figs. 1–4. 26 Oct 1984. **TYPE: MADAGASCAR**. Diego Suarez: Reserve Naturelle de Masoala across the Onive River from Ambatobe and upriver from Ambohitralanana, 8 Apr 1971, *H.E. Moore, Jr. 9921*. Holotype: BH (2 boxes, 1 envelope, 1 paper packet); isotype: P.

Heterospathe delicatula H.E. Moore, Principes 13: 101. 18 Sep 1969. **TYPE: PAPUA NEW GUINEA**. Milne Bay District: north slope of Mt. Dayman, Maneau Range, 22 Jun 1953, *L.J. Brass 23005*. Holotype: BH (1 sheet and 1 packet); isotype: A.

Heterospathe parviflora Essig, Principes 36: 4, figs. 1–3. 3 Mar 1992. **TYPE: PAPUA NEW GUINEA**. West New Britain: mountains south of Hoskins, Kapiura Timber Area near the village of Sampantabil, 20 Feb 1989, *F.B. Essig & P. Katik LAE64060*. Holotype: USF; isotypes: BH (1 sheet and 1 envelope), K, LAE.

Hyophorbe vaughanii L.H. Bailey, Gentes Herb. 6: 70, figs. 48, 49. 6 May 1942. **TYPE: MAURITIUS**. forest of La Gouardotte near Gouly, 23 Apr 1933, *R.E. Vaughan 850*. Holotype: BH (1 box with two vials and 1 sheet with 2 envelopes). NOTE: Bailey alludes to "specimens from forest of La Gouardotte" and quotes the collector who indicated that the

taxon was known from "one or two wild specimens." Figure 49 (p. 77) appears to have been drawn from the portion of the collection that Vaugh annotated *850c*; one of the vials (with seeds and fragments of a leaf) is also labeled *850c*. The photograph (fig. 48, p. 77) has seeds and this material was labeled *850d*. The three leaf fragments labeled *850a* by Vaughan all appear to have come from a single blade. An inflorescence is in a vial labeled *850b*. At this time all of this material is considered to have come from a single individual and a lectotype is not required.

Hyospathe pallida H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 197. 19 Nov 1949. TYPE: **COLOMBIA**. Antioquia: Uchupayaco, en la planada entre Urcusique y Umbria en las orillas del Río Uchupayaco, 22–23 Feb 1942, *R.E. Schultes 3291*. Holotype: BH (2 sheets); isotype: GH.

Hyospathe wendlandiana Dammer ex Burret, Notizbl. Bot. Gart. Berlin-Dahlem 10: 855. 1929. NEOTYPE (designated by R. Bernal G. et al., Taxon 38: 105. 1989): **COLOMBIA**. Antioquia: 5.5 km from El Chocó on the Granada-San Luis road, 20–21 Sep 1987, *R. Bernal G. & L.E. Tobón A. 1386*. Neotype: COL; isoneotypes: AAU, BH (1 sheet and 1 envelope with 1 packet), HUA, K, NY.

Iguanura speciosa Hodel, Palm J. 134: 29, fig. 2–3. May 1997. TYPE: **THAILAND**. Narathiwat: Ban Talok Buket, 18 Feb 1997, *D.R. Hodel & P. Vatcharakorn 1628*. Holotype: BK.; isotype: BH (1 sheet and 1 envelope).

Iguanura wallichiana (Mart.) Becc. var. ***humilis*** Kiew, Gard. Bull. Singapore 28: 223. 11 Sep 1976. TYPE: **MALAYSIA**. Kemaman: Ulu Bendong, 31 Oct 1935, *E.J.H. Corner 30095*. Holotype: SING; isotypes: BH (1 sheet), L.

Iriartella ferreyrae H.E. Moore, Gentes Herb. 9: 278, fig. 197. 30 Oct 1963. TYPE: **PERU**. Coronel Portillo: Pampas de Sacramento area a few km southwest of Yurac on the road to Boqerón del Padre Abad between Divisoria and Aguaytía, 28 Apr 1960, *H.E. Moore, Jr., A. Salazar C. & E.E. Smith 8367*. Holotype: BH (1 sheet, 1 small envelope and 4 packets); isotype: USM.

Itaya amicorum H.E. Moore, Principes 16: 86, figs. 13A, 15–17. 18 Oct 1972. TYPE: **PERU**. Maynas: Department Loreto, Río Itaya, on Varadero de Omaguas from Fundo Ciudadilla, about 2.5 hours by 40 H.P. speedboat from Iquitos, 5 Mar 1967, *H.E. Moore, Jr., A. Salazar C. & A. Gutiérrez R. 9509*. Holotype: BH (1 box with 2 envelopes and 2 small envelopes); isotype: USM.

Johannesteijsmannia lanceolata J. Dransf., Gard. Bull. Singapore 26: 78, fig. 5. 30 Dec 1972. TYPE: **MALAYSIA**. Selangor: Virgin Jungle Reserve, Sungei Lalang Forest Reserve, Semenyih, Kajang, 24 May 1968, *J. Dransfield 861*. Holotype: K; isotype: BH (1 box and 1 envelope).

Johannesteijsmannia magnifica J. Dransf., Gard. Bull. Singapore 26: 75, fig. 4. 30 Dec 1972. TYPE: **MALAYSIA**. Selangor: Virgin Jungle Reserve, Sungei Lalang Forest Reserve, Semenyih, Kajang, 24 May 1968, *J. Dransfield 862*. Holotype: K; isotype: BH (2 box and 2 envelopes and 2 plastic bags of fruits).

Johannesteijsmannia perakensis J. Dransf., Gard. Bull. Singapore 26: 75, fig. 4. 30 Dec 1972. TYPE: **MALAYSIA**. Perak: Kleadang-Saiong Forest Reserve, Parit, 10 Jun 1968, *J. Dransfield 871*. Holotype: K; isotype: BH (1 box, 1 envelope with a packet, and 1 plastic bag).

Jubautia splendens D.R. Hodel, Palms 55: 64, figs. 1–4. 2011. TYPE: **UNITED STATES. California**. Contra Costa: Walnut Creek, garden of Richard Douglas, 24 Jul 2010, *D.R. Hodel, M.A. Hodel & R. Douglas 2031*. Holotype: BH (1 box, 1 envelope). Isotype: HNT. NOTE: The only species in *Jubautia* Demoly, J. Bot. Soc. France 18-19: 189. 2003.

Kentiopsis piersoniorum Pintaud & Hodel, Principes 42: 45, figs. 5, 9. 20 Mar 1998. TYPE: **NEW CALEDONIA**. Nord: Mont Panié, 29 Dec 1995, *J.-C. Pintaud 309*. Holotype: P; isotype: BH (1 sheet and 1 envelope).

Kentiopsis pyriformis Pintaud & Hodel, Principes 42: 49, figs. 6–9. 20 Mar 1998. **TYPE: NEW CALEDONIA**. Goro: mouth of Kuebini River, 6 Dec 1995, *J.-C. Pintaud & D.R. Hodel 303*. Holotype: P; isotypes: BH (1 box and 1 envelope), K, NOU, NY.

Lavoixia macrocarpa H.E. Moore, Gentes Herb. 11: 297, figs. 4–5. 27 Apr 1978. **TYPE: NEW CALEDONIA**. Nord: Mont Panié, 1973, *M. Schmid 4575*. Holotype: BH (1 box and 1 envelope); isotype: NOU.

Lemurophoenix halleuxii J. Dransf., Kew Bull. 46: 62, figs. 1–2. 1 Mar 1991. **TYPE: MADAGASCAR**. Toamasina: Maroantsetra, Andranofotsy River, Sahavary, hills east of village, Andilampananina, 10 Feb 1988, *J. Dransfield, A.N. Henderson & M. Staniforth JD6453*. Holotype: K; isotypes: BH (1 box and 2 plastic bags), MO, NY, P, TAN.

Licuala delicata Hodel, Palm J. 136: 11, figs. 9–10. Sep 1997. **TYPE: THAILAND**. Yala: Betong, Ban Ko Chon, 15 May 1997, *D.R. Hodel & P. Vatcharakorn 1740*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Licuala elliptica Saw, Kew Bull. 67: 606, fig. 13. 15 Nov 2012. **TYPE: MALAYSIA. BORNEO**. Sarawak: Kuching, Gunung Buri, ridge to Gunung Brikok, 23 May 1981, *Dransfield et al. 6123*. Holotype: K; isotypes: BH (1 sheet), NY, SAR.

Licuala filiformis Hodel, Palm J. 134: 32, fig. 5. May 1997. **TYPE: THAILAND**. Narathiwat: south of Narathiwat, 17 Feb 1997, *D.R. Hodel & P. Vatcharakorn 1621*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Licuala hirta Hodel, Palm J. 136: 12, figs. 11–13. Sep 1997. **TYPE: THAILAND**. Phangnga: above and behind Phangnga Agriculture College, 6 May 1997, *D.R. Hodel & P. Vatcharakorn 1717*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Licuala lanata J. Dransf. in A.C. Jermy, Bot. J. Linn. Soc. 81: 27, fig. 8. 4 Nov1980. **TYPE: MALAYSIA. BORNEO**. Sarawak: at the foot of Bukit Berar, G. Mulu National Park, 27 Sep 1977, *P. Chai S39527*. Holotype: K; isotypes: BH (1 sheet and 1 packet), KEP, LIN, SAN, SAR.

Licuala stenophylla Hodel, Palm J. 136: 16, figs. 14–15. Sep 1997. **TYPE: THAILAND**. Satun: east of Satun, 26 Apr 1997, *D.R. Hodel & P. Vatcharakorn 1660*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Licuala tansachana Hodel, Palm J. 134: 34, fig. 8. May 1997. **TYPE: THAILAND**. Narathiwat: southwest of Narathiwat, 15 Feb 1997, *D.R. Hodel & P. Vatcharakorn 1601*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Livistona eastonii C.A. Gardner, Forest Dept. Bull. 32: 36. 1923, as "Eastoni." **LECTOTYPE** (designated by A.N. Rodd, Telopea. 8: 112. 1998): **AUSTRALIA**. Perth: lower King Edward River, 22 Aug 1921, *C.A. Gardner 1544*. Lectotype: PERTH; isolectotypes: B, BH (1 sheet), CANB, K, MEL.

Livistona exigua J. Dransf., Kew Bull. 31: 760. 30 Jun 1977. **TYPE: MALAYSIA. BORNEO**. Brunei: Ulu Ingei, Belait, Aug 1959, *P.S. Ashton BRUN 5513*. Holotype: K; isotypes: BH (1 sheet), BO, L, SAR.

Louvelia albicans Jum., Ann. Inst. Bot.-Geol. Colon. Marseille, sér. 5, 1(1): 5. 1933. **TYPE: MADAGASCAR**. Antsiranana: Masoala Peninsula, Massif de Masoala, 1932, *H. Perrier de la Bathe 11939*. Holotype: P; isotypes: BH (frag.), P.

Louvelia madagascariensis Jum. & H. Perrier, Compt. Rend. Acad. Paris 155: 411. 1912. **TYPE: MADAGASCAR**. Alaotra-Mangoro: Analamazaotra, "Lakamarefo," sin. dat., *H. Perrier de la Bathe 12021*. Holotype: P; isotypes: BH (frag.).

×***Lytoagrus dickensonii*** Hodel, Palms 49: 123. 9 Sep 2005. **TYPE: UNITED STATES. California**. Los Angeles Co.: garden of William Dickenson, Fullerton, 11 Dec 2004, *D.R. Hodel 1970*. Holotype: K; isotype: BH (1 sheet and 1 envelope). NOTE: A hybrid developed in cultivation between *Lytocaryum weddellianum* (H. Wendl.) Toledo × *Syagrus romanzoffiana* (Cham.) Glassman. NOTE: The type species of the genus.

Masoala kona Beentje in J. Dransfield & H. Beentje, Palms of Madagascar: 425, figs. 10 Nov 1995. **TYPE**: **MADAGASCAR**. Ifanadiana: 3 hour walk east of Tsaratanana, 20 Mar 1991, *H.J. Beentje & H.R. Andriampaniry 4437*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Masoala madagascariensis Jum., Ann. Inst. Bot.-Géol. Colon. Marseille, sér. 5, 1: 8. 1933. **TYPE**: **MADAGASCAR**. Antsiranana: Masoala Peninsula, Maramabo, Oct 1912, *H. Perrier de la Bathe 11938*. Holotype: P; isotypes: BH (2 sheet with fragment packets)

Maxburretia furtadoana J. Dransf., Gentes Herb. 11: 195, figs. 1–6. 27 Apr 1978. **TYPE**: **THAILAND**. Surat Thani: Khao Changai, near Surat Thani, 19 Jan 1972, *J. Dransfield 2349*. Holotype: K; isotypes: A, BH (1 sheet and 1 packet), BM, BO, BRI, CALI, G, KEP, MEL, NY, P, PNH, SAR, SING, SYD, US.

Mackeea magnifica H.E. Moore, Gentes Herb. 11: 304, figs. 8–10. 27 Apr 1978. **TYPE**: **NEW CALEDONIA**. Ouégoa: Col d'Amos, Haute Mayavetch, 24 Mar 1973, *H.S. McKee 26471*. Holotype: BH (1 box and 1 envelope).

Malortiea pumila Dugand, Revista Acad. Colomb. Ci. Exact. 7: 515, fig. 9. May 1950. **TYPE**: **COLOMBIA**. Chocó: Bahía Solano, 5 Feb 1947, *O. Haught 5535*. Holotype: COL; isotypes: BH (1 sheet), US.

Martinezia killipii Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 326. 30 Mar 1932. **LECTOTYPE** (designated by Borchsenius & R. Bernal G., Fl. Neotrop. Monogr. 70: 46. 1996): **COLOMBIA**. Santander: Rio Suratá, between Bucaramanga and Jaboncillo, 2 Jan 1927, *E.P. Killip & A.C. Smith 16362*. Lectotype: NY; isolectotype: A, BH (1 sheet), GH.

Marojejya darianii J. Dransf. & N.W. Uhl, Principes 28: 151, figs. 1–3 plus cover. 26 Oct 1984. **TYPE**: **MADAGASCAR**. Maroantsetra: swamp northeast of Maroantsetra, Nov 1983, *M.E. Darian s.n.* Holotype: BH (1 sheet); isotype: K.

Mascarena lagenicaulis L.H. Bailey, Gentes Herb. 6: 74, figs. 43, 50, 54–57. 6 May 1942. **LECTOTYPE** (**designated here**): **UNITED STATES**. **Florida**. Dade Co.: Cultivated, Montgomery Estate, Coconut Grove, Mar 1942, *L.H. Bailey 716*. Lectotype: BH (1 box with a packet and 5 sheets). NOTE: There is a note with the lectotype that states "Sent by mail" suggesting that perhaps this series of specimens was not collected by Bailey. The syntype, also numbered *716*, was gathered by Bailey on 24 Feb 1942 (BH: 2 sheets and 1 plastic bag) and consists of leaves and a few fruits. All elements were taken from a single individual.

Metroxylon paulcoxii McClatchey, Novon 8: 255. 14 Sep 1998. **TYPE**: **SAMOA**. Upolu Island: between Falevao and La Mafa Pass, *H.E. Moore & I. Fasavalu 9985*. Holotype: BH (1 box).

Moratia cerifera H.E. Moore, Gentes Herb. 12: 18, figs. 1–4. 29 Feb 1980. **TYPE**: **NEW CALEDONIA**. Nord: east slopes of Mont Panie on the trail from Tiaot to summit, 3 Oct 1978, *H.E. Moore, Jr. & P. Morat 10400*. Holotype: BH (2 boxes and 1 envelope); isotypes: K, NOU, P.

Morenia latisecta H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 203, fig. 87. 19 Nov 1949. **TYPE**: **COLOMBIA**. Putumayo: Sibundoy, 29 May 1946, *R.E. Schultes & M. Villareal 7676*. Holotype: BH (2 sheets and 1 small envelope).

Nannorrhops arabica Burret, Bot. Jahrb. Syst. 73: 185. 18 Jun 1943. **TYPE**: **SAUDIA ARABIA**. Hadramaut: Wadi Djâri, auf Schutt und Löss des Talbodens, 3 May 1939, *H. v. Wissmann 2662*. Holotype: HBG; isotypes: BH (frag.); E.

Nenga intermedia Becc., Ann. Jard. Bot. Buitenzorg 2: 81, 85. 1885. **TYPE**: **INDONESIA**. Padang: Sungei Bulu, Sumatra, Sep 1878, *O. Beccari PS 942*. Holotype: FI; isotypes: BH (frag.), BM, K.

Nenga macrocarpa Scort. ex Becc., Malesia 3: 180. Sep 1889. **LECTOTYPE** (designated by H.E. Moore Jr. in E.S. Fernando, Principes 27: 65. 1983): **MALAYSA**. Perak: Maxwell's Hill, sin. dat., *B. Scortechini 547a*. Lectotype: FI; isolectotype: BH (frag.).

Nenga schefferiana Becc., Ann. Jard. Bot. Buitenzorg 2: 81, 84. 1885. **TYPE: INDONESIA.** Sumatra, without location, sin. dat., *R.H.C.C. Scheffer s.n.* Holotype: FI; isotypes: BH (frag.), BM, K.

Neodypsis leptocheilos Hodel, Palm J. 1993: 9. Jan 1993. **TYPE: TAHITI.** Tahiti-nui: Cultivated, Papeari residence of Christina Spies, 8 Apr 1992, *D.R. Hodel 1144*. Holotype: BH (1 box and 2 envelopes); isotype: K.

Oenocarpus panamanus L.H. Bailey, Gentes Herb. 3: 71, figs. 50–53. 15 Mar 1933. **LECTOTYPE (designated here): PANAMA.** Canal Zone: Experimental Gardens, Summit, 1 Jul 1931, *L.H. Bailey & Z. Bailey 441*. Lectotype: BH (3 sheets). NOTE: Bailey made no reference to any collection but published one figure (fig. 51) along with three photographs. As he had original material at hand (*441*), this element is now designated as the lectotype.

Orania gagavu Essig, Lyonia 1: 227, fig. 9. Jan–Apr 1980. **TYPE: PAPUA NEW GUINEA.** Milne Bay: slopes of Mt. Daraia, north of Kaporika, 12 May 1978, *F.B. Essig & B.E. Young LAE 74096*. Holotype: LAE; isotypes: BH (1 sheet and 1 packet), USF.

Orania glauca Essig, Lyonia 1: 229, figs. 10–12. Jan–Apr 1980. **TYPE: PAPUA NEW GUINEA.** West Sepik: near Amanab, 24 Nov 1971, *F.B. Essig LAE 55089*. Holotype: LAE; isotypes: BH (1 box and 1 packet), LAE.

Orania oreophila Essig, Lyonia 1: 225, fig. 7. Jan–Apr 1980. **TYPE: PAPUA NEW GUINEA.** Eastern Highlands: Saboa, near Andandara, 6 Oct 1979, *F.B. Essig LAE 55147*. Holotype: BH (1 box and 1 packet), LAE.

Orania parva Essig, Lyonia 1: 226, fig. 8. Jan–Apr 1980. **TYPE: PAPUA NEW GUINEA.** West Sepik: Frieda River near "Clearwater Creek", south of Carpentaria Company airstrip 26 Apr 1978, *F.B. Essig & B.E. Young LAE 74046*. Holotype: LAE; isotypes: BH (1 box and 1 envelope with 3 packets), USF.

Orbignya dammeriana Barb.Rodr., *Sert. Palm. Brasil.* 1: 62, t. 54. Feb–Oct 1903. **LECTOTYPE** (designated by S.F. Glassman, Phytologia 36: 97. Jun 1977): **BRAZIL.** Rio de Janeiro: cultivated, Jardin Botanico, Rio de Janeiro, sin dat., *A.F.M. Glaziou 16468*. Lectotype: B; isolectotypes BH (1 envelope), BSB (now at B), C, P. NOTE: It is possible that the above collection number is incorrect and should be *16488* inasmuch as there is a collection of *Tillandsia hieroglyphica* Baker that is also numbered *16468*. Most of Barbosa Rodrigues's palm types were destroyed by fire so the selection of a new type, as done by Glassman, is reasonable. However, it is questionable that this Glaziou gathering is original material so that the only extant original element is t. 54 which, if true, would then have to be designated as the lectotype.

Oreodoxa regia Kunth var. ***jenmanii*** Waby, J. Board Agric. Brit. Guiana 12: 51. 1919. **NEOTYPE** (designated by S. Zona, Fl. Neotrop. Monogr. 71: 24. 1996): **GUYANA**: In cultivation, Georgetown, 21–24 Mar 1921, *L.H. Bailey 581*. Neotype: BH (6 sheets and 1 box with an envelope). NOTE: The name, *Roystonea oleracea* (Jacq.) O.F. Cook var. *excelsior* L.H. Bailey, Gentes Herb. 3: 369, fig. 204. 15 Apr 1935, is superfluous because the Waby name was mentioned by Bailey although he thought it had not been published. Specimens collected on 7 Mar 1922 and in 1933 are not part of the type but are retained in the type collection as they are original material when Bailey proposed his superfluous var. *excelsior*.

Palma argentata Jacq., Fragm. Bot. 38, pl. 43. 1801. **LECTOTYPE** (**designated here** by L.B. Kass & J.L. Reveal): [icon] N.J. Jacquin, Fragm. Bot. pl. 43. 1801. **EPITYPE, designated here** by L.B. Kass & J.L. Reveal: **UNITED STATES. Florida.** Dade Co.: Coconut Grove, 29 Jan 1925, *L.H. Bailey & E.Z. Bailey 6293*, BH (4 sheets). NOTE: The modern definition of *Palma argentata* in the sense of *Coccothrinax argentata* (Jacq.) L.H. Bailey, Gentes Herb. 4: 223. 31 May 1939, is established here by the designated epitype as the Jacquin illustration as the type of the name (the only currently available original matter), but because this image is ambiguous with regards to its species identification, an epitype is established here as well. Details on this matter will be presented by Kass and Reveal in the near future.

Pholidostachys dactyloides H.E. Moore, J. Arnold Arbor. 48: 148, figs. 3–4. 16 Apr 1967. **TYPE: COLOMBIA**. Departmento del Valle: Costa del Pacifico, Río Yurumanguí, El Papayo, 5 Feb 1944, *J. Cuatrecasas 15982*. Holotype: BH (3 sheets and 4 packets, one with two smaller seed packets); isotypes: COL, F.

Physokentia avia H.E. Moore, Principes 21: 86. 20 May 1977. **TYPE: PAPUA NEW GUINEA**. East New Britain: Mt. Lululua, 12 May 1973, *P.F. Stevens & R.S. Essig LAE 58394*. Holotype: BH (1 sheet and 1 envelope); isotype: LAE.

Physokentia dennisii H.E. Moore, Principes13: 131, fig. 2E. 21 Nov 1969. **TYPE: SOLOMON ISLANDS**. Guadalcanal: headwaters of the Matiniko'o River, 11 Apr 1965, *G.F.C. Dennis s.n.* Holotype: BH (1 box and 1 envelope with 2 packets). NOTE: According to Dennis's letter to Moore, specimens were taken from three individuals: "two handsome 30-35 ft. tall Clinostigmoid palms, and a complete 4 ft. tall specimen of the palm." Individual samples in the box at BH are appropriately labeled as to which individual specimens were taken. From which of the specimens Dennis obtained the flowers and fruits are not indicated.

Physokentia insolita H.E. Moore, Principes 13: 133, figs. 2F, 2G, 3–4. 21 Nov 1969. **TYPE: SOLOMON ISLANDS**. East Kolombangara Island: 1.5 miles inland, 16 Apr 1964, *T.C. Whitmore BSIP 4095*. Holotype: BH (1 box and 1 envelope with 1 packet); isotypes: HON, US.

Physokentia rosea H.E. Moore, Principes10: 90. 21 Nov 1969. **TYPE: FIJI**. Viti Levu: upper slopes and ridges from Mt. Lomalangi beyond second peak in an easterly direction, near Nadarivatu, 2 May 1964, *H.E. Moore, Jr. & D. Koriveibau 9363*. Holotype: BH (1 box and 1 envelope).

Physokentia whitmorei H.E. Moore, Principes 13: 129, fig. 2C. 21 Nov 1969. **TYPE: SOLOMON ISLANDS**. San Cristobal (East): headwaters of Huni River, 4 miles east of Wainoni, 10 Aug 1965, *T.C. Whitmore RSS 6309*. Holotype: BH (1 box 1 envelope and 1 packet); isotype: K.

Phytelephas brevipes O.F. Cook, J. Wash. Acad. Sci. 3: 142. 4 Mar 1913. **TYPE: PANAMA. Panamá**. Gasapasabana, upper Mamoni River, Oct 1911, *H. Pittier 4473*. Holotype: US; isotype: BH (2 envelopes).

Pichisermollia insignis (Becc.) H.C. Monteiro var. ***moorei*** J. Dransf. in A.C. Jermy, Bot. J. Linn. Soc. 81: 40, fig. 2. 4 Nov 1980. **TYPE: MALAYSIA**. Sarawak: Bako National Park, *H.E. Moore 9109*. Holotype: K; isotypes: BH (2 sheets, 3 packets); SAR.

Pinanga bowiana Hodel, Palm J. 134: 35, figs. 9–10. May 1997. **TYPE: THAILAND**. Narathiwat: southwest of Narathiwat, 16 Feb 1997, *D.R. Hodel & P. Vatcharakorn 1608*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Pinanga chaiana J. Dransf., Kew Bull. 34: 779. 22 Aug 1980. **TYPE: MALAYSIA. BORNEO**. Sarawak: G. Mulu National Park, Ulu Sungai Berar, 10 Feb 1977, *P. Chai S39601*. Holotype: K; isotypes: BH (1 sheet and 1 envelope), KEP, L, SAN, SER.

Pinanga cleistantha J. Dransf., Principes 26: 127. 2 Feb 1982. **TYPE: MALAYSIA**. Trengganu: Ulu Setiu Forest Reserve, foothills of G. Lawit, 8 May 1977, *J. Dransfield JD5179*. Holotype: K; isotypes: BH (1 sheet), KEP.

Pinanga dumetosa J. Dransf., Kew Bull. 34: 781, fig. 3. 22 Aug 1980. **TYPE: MALAYSIA. BORNEO**. Sarawak: G. Mulu National Park proposed extension, foot of G. Buda, 16 Oct 1977, *J. Dransfield JD5340*. Holotype: K; isotypes: BH (1 sheet), KEP, L, SAN, SAR.

Pinanga fractiflexa Hodel, Palm J. 136: 19. Sep 1997. **TYPE: THAILAND**. Surat Thani: 25 km west of Phanom, near Khao Sok Park, 10 May 1997, *D.R. Hodel & P. Vatcharakorn 1729*. Holotype: BK; isotype: BH (1 sheet and 1 envelope).

Pinanga furfuracea Blume, Rumphia 2: 88. Dec 1838–Oct 1939. **TYPE: INDONESIA**. Sulawesi (formerly Celebes Islands), sin. dat., *P.W. Korthals s.n.* Holotype: L; isotype: BH (frag.).

Pinanga griffithii Becc., Malesia 3: 117, pl. CCXXXIIB. Sep 1886. **TYPE: INDIA**. Assam: Khasia Hills, sin. dat., *F. Jenkins s.n.* Holotype: Not determined; isotypes: BH (frag.), BR.

Pinanga noxa Blume, Rumphia 2: 81. Dec 1838–Oct 1839. **TYPE: INDONESIA. JAVA.** Without location, sin. dat., *C.L. Blume s.n.* Holotype: L (3 sheets); isotype: BH (frag.). NOTE: The BH fragments were taken from Leiden sheet 200210.0

Pinanga pachyphylla J. Dransf., Kew Bull. 46: 695, fig. 3. 18 Nov 1991. **TYPE: MALAYSIA. BORNEO.** Sarawak: Bako National Park, 15 Apr 1981, *J. Dransfield et al. JD5912.* Holotype: K.; isotype: BH (1 sheet and 1 envelope with a packet).

Pinanga rupestris J. Dransf., Kew Bull. 46: 693, fig. 2. 18 Nov 1991. **TYPE: MALAYSIA. BORNEO.** Sarawak: Bako National Park, 15 Apr 1981, *J. Dransfield et al. JD5917.* Holotype: K; isotypes: BH (1 sheet), L, SAR

Pogonotium moorei J. Dransf., Principes 26: 174. 2 Feb 1982. **TYPE: MALAYSIA. BORNEO.** Sarawak: Sabal Tapang Forest Reserve, G. Gaharu, summit ridge, 20 May 1981, *J. Dransfield et al. JD6102.* Holotype: K; isotypes: BH (1 sheet and 1 packet), BO, L. PNH, SAR.

Prestoea allenii H.E. Moore, Principes 9: 72, figs. 57–58. 4 Jun 1965. **TYPE: PANAMA. Chiriquí.** near Cerro Punta, 24 May 1946, *P.H. Allen 3531.* Holotype: BH (1 box); isotype: MO.

Prestoea sejuncta L.H. Bailey, Gentes Herb. 6: 201, fig. 103. 4 Aug 1943. **TYPE: PANAMA. Canal Zone.** Upper Río Pequini, Madden Lake area, near the police station, 29 Jul 1941, *A.G.B. Fairchild & D. Jobbins 2635.* Lectotype, designated by A. Henderson & G. de Nevers, Ann. Missouri Bot. Gard. 75: 213. 1988, as "holotype": BH (4 sheets and 1 box with 2 envelopes and 1 vial); isolectotype: MO. NOTE: Bailey did not indicate where the holotype was deposited.

Prestoea semispicata Nevers & A.J. Hend. in A. Henderson & G. de Nevers, Ann. Missouri Bot. Gard. 75: 213, figs. 15–16. 31 May 1988. **TYPE: PANAMA. San Blas.** Cerro Brewster, 19 Nov 1985, *G. de Nevers et al. 6290.* Holotype: MO; isotypes: AAU, BH (1 sheet and 1 envelope), CAS, COL, FTG, K, NY, PMA.

Pritchardia aylmer-robinsonii H. St. John, Pacific Sci. 13: 163. Apr 1959. **TYPE: UNITED STATES. Hawaii.** Niijau: south ridge of Mokouia Valley, 15 Aug 1947, *H. St. John 22813.* Holotype: BISH; isotype: BH (1 sheet and 1 small envelope).

Pritchardia kamapuaana Caum, Occas. Pap. Bernice Pauahi Bishop Mus. 9(5): 10, pls. VIII, XIV, fig. 2. Sep 1930. **TYPE: UNITED STATES. Hawaii.** Oahu: Koolau Range, Hauula-Kaluanui Ridge, 7 Jan 1927, *E.L. Caum 151.* Holotype: BISH; isotype: BH (4 sheets, 2 envelopes and 1 cloth bag).

Pritchardia macdanielsii Caum, Occas. Pap. Bernice Pauahi Bishop Mus. 9(5): 11, pls. IX, XV, fig. 3. Sep 1930. **TYPE: UNITED STATES. Hawaii.** Oahu: Koolau Range, Hauula-Kaluanui Ridge, 7 Jan 1927, *L.H. MacDaniels 168.* Holotype: BISH; isotype: BH (4 sheets and 2 envelopes).

Pritchardia schattaueri Hodel, Principes 29: 31, fig. 1. 31 Jan 1985. **TYPE: UNITED STATES. Hawaii.** South Kona District: lands of Honomalino, Ho'omau Ranch, 19 Jun 1980, *H.E. Moore et al. 10570.* Holotype: BH (1 box and 1 envelope).

Pseudophoenix insignis O.F. Cook, J. Wash. Acad. Sci. 13: 400, fig. 1. 4 Nov 1923. **TYPE: HAITI.** L'Artibonite: 3 miles from Passe Reine, about 21 km east of Gonaives and 10 km west of Ennery, 28 Jul 1923, *O.F. Cook 28.* Holotype: US; isotype: BH (frag.).

Pseudophoenix lediniana Read, Gentes Herb. 10: 189. 26 Jun 1968. **TYPE: HAITI.** L'Ouest: slopes above the valley of Riv. Levange, 3–4 miles west of Carrefour Fauché on road to Gerard and Trouin, 15 Apr 1963, *R.W. Read & F. Pierre-Louis 1154.* Holotype: BH (2 boxes and 1 envelope, plus one jar of fruit in liquid); isotype: FTG.

Pseudophoenix linearis O.F. Cook, J. Wash. Acad. Sci. 13: 407. 4 Nov 1923. **TYPE: CUBA.** Camaguey: Lomo de Loro, Cayo Romano, 21 Oct 1909, *J.A. Shafer 2644.* Holotype: US; isotype: BH (frag.).

Pseudophoenix saonae O.F. Cook, J. Wash. Acad. Sci. 13: 406. 4 Nov 1923. **TYPE: DOMINICAN REPUBLIC. SANTO DOMINGO.** Seibo: banks of a salt lake on Saona Island, 9 Dec 1909, *N. Taylor 513.* Holotype: US; isotype: BH (frag.).

Ptychococcus lepidotus H.E. Moore, Principes 9: 11, fig. 5. 27 Mar 1965. **TYPE: PAPUA NEW GUINEA**. Morobe: ridge trail southwest of Bupu Village on track to Engebu above the Wampit River, 3 Mar 1964, *H.E. Moore & A. Millar 9259*. Holotype: BH (1 box and 2 envelopes).

Ptychosperma arecina Becc., Malesia 1: 58. Apr 1877. **TYPE: INDONESIA**. West Papua: Sorong Island, Ramoi River at Ramoi near Sorong, 8 Jun 1872, *O. Beccari 423*. Holotype: FI; isotype: BH (frag.).

Ptychosperma buabe Essig, Allertonia 1: 461, fig. 6H. 21 Aug 1978. **TYPE: PAPUA NEW GUINEA**. West Sepik: Torricelli Mountains, near Sigaite, on the road from Lumi to Fatima, 26 Nov 1971, *F.B. Essig LAE 55103*. Holotype: BH (1 box and envelope).

Ptychosperma mooreanum Essig, Principes 19: 75, fig. 1. 23 May 1975. **TYPE: PAPUA NEW GUINEA**. Milne Bay: Normanby Island, Sewa Bay, lowlands along the coast, 21 Oct 1971, *F.B. Essig LAE 55066*. Holotype: BH (1 sheet, 1 envelope and 1 packet); isotype: LAE.

Ptychosperma vestitum Essig, Allertonia 1: 463, fig. 3B. 21 Aug 1978. **TYPE: PAPUA NEW GUINEA**. East Sepik: flat swamp forest 14 miles from Maprik on road to Wewak, 12 Mar 1971, *F.B. Essig LAE 55132*. Holotype: BH (1 box and envelope).

Pyrenoglyphis microcarpa Burret, Repert. Spec. Nov. Regni Veg. 34: 250. 1934. **TYPE: GUYANA**. Mahaica Creek, Jul 1901, *G.S. Jenman 7725*. Holotype: K; isotypes: BH (frag.), NY.

Ravenea amara Jum., Ann. Inst. Bot.-Geol. Colon. Marseille, sér. 4, 5: 33. 1927. **TYPE: MADAGASCAR**. Betsiboka: Tsaratanana, Apr 1924, *H. Perrier de la Bathie 16070*. Holotype: P; isotype: BH (frag.).

Ravenea dransfieldii Beentje, Kew Bull. 49: 656, figs. 4–5. 28 Nov 1994. **TYPE: MADAGASCAR**. Moroantsetra: Masoala Peninsula, hill near Hiaraka, 10 Oct 1986, *J. Dransfield et al. JD 6372*. Holotype: K; isotypes: BH (1 box, 1 envelope), MO, P, TAN.

Ravenea julietiae Beentje, Kew Bull. 49: 646, fig. 2. 28 Nov 1994. **TYPE: MADAGASCAR**. Farafangana: Manombo Forest, 1 Jan 1993, *H.R. Beentje & H.R. Andriampaniry 4783*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Ravenea krociana Beentje, Kew Bull. 49: 636, fig. 1.. 28 Nov 1994. **TYPE: MADAGASCAR**. Tolanaro: Andohahela, 3 Mar 1992, *H.R. Beentje & H.R. Andriampaniry 4605*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Ravenea moorei J. Dransf. & N.W. Uhl, Principes 30: 159, fig. 1. 28 Oct 1986. **TYPE: COMOROS**. Comoro Island, Grand Comore, Chemin du Capitan Dubois, on lava between Boboni and Kafeni, 6 Nov 1963, *H.E. Moore, Jr. & A. Moelevoce 9028*. Holotype: BH (1 box); isotypes: K, P, TAN.

Ravenea musicalis Beentje, Principes 37: 199, figs. 1–7. 19 Nov 1993. **TYPE: MADAGASCAR**. Tolanaro: Belavenona, Andriambe River, 5 Mar 1992, *H.R. Beentje & H.R. Andriampaniry 4611*. Holotype: K; isotypes: BH (1 sheet, 1 envelope), MO, P, TAN.

Rehderophoenix subdisticha H.E. Moore, Principes 10: 93, fig. 4. 2Sep 1966. **TYPE: SOLOMON ISLANDS**. Santa Ysabel: Bogotu Peninsula, on ridges behind Nangalao Village near Tatamba, 20 Mar 1964, *H.E. Moore, Jr. & T.C. Whitmore* 9300 [= *BSIP 2588*]. Holotype: BH (1 sheet and 1 box with 1 packet); isotypes: BSIP, K.

Reinhardtia gracilis Burret var. ***tenuissima*** H.E. Moore, Principes 1: 145, fig. 7. 15 Jul 1957. **TYPE: MEXICO. Oaxaca**. Finca la Gloria north of Niltepec, 3 Apr 1946, *E. Hernandez Xolocotzi & A.J. Sharp X-1291*. Holotype: BH (1 sheet and 1 envelope with 3 packets).

Reinhardtia paiewonskiana Read, Zanoni & M.M. Mejía, Brittonia 39: 20, figs. 1–5. 30 Mar 1987. **TYPE: DOMINICAN REPUBLIC**. Barahona: Sierra de Baoruco, en la Cuenca de la Cañada El Manile, ca. 5 km al interior de Losa Patos (de Paraiso), 25 May 1985, *T.A. Zanoni & J. Pimentel 34682*. Holotype: JBSD; isotypes BH (1 box, 1 envelope and 1 packet), K, LHB, MEXU, US.

Reinhardtia spinigera L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 191, fig. 81. 19 Nov 1949. **TYPE: MEXICO. Oaxaca**. Cerro Caracol, near Latani, 11 May 1939, *R.E. Schultes 886*. Holotype: BH (4 sheets).

***Rhapis* × 'Alicia'** Hodel, Palm J. 160: 24, figs. Sep 2001. **TYPE: UNITED STATES. California**. Orange Co.: garden of Lou Hooper, La Habra, 3 Jul 2003. Nomenclatural standard: BH (1 sheet and 1 envelope).

Rhopaloblaste elegans H.E. Moore, Principes 10: 94, figs. 5–7. 2 Sep 1966. **TYPE: SOLOMON ISLANDS**. Guadalcanal: North coast near Honiara, 1 mile from the coast and 1 mile east of White River headwaters, 27 Mar 1964, *H.E. Moore, Jr., G.F.C. Dennis & T.C. Whitmore 9310* [=*BSIP 4085*]. Holotype: BH (1 box, 1 envelope and 1 packet); isotype: BSIP.

Rooseveltia frankliniana O.F. Cook, Smithsonian Misc. Collect. 98(7): 21, tab. 1, 2, 4–19. 29 May 1939. **TYPE: COSTA RICA. Puntarenas**. Cocos Island, 2 Aug 1938, *W.L. Schmitt 134*. Holotype: US; isotype: BH (2 sheets, 1 envelope and 3 packets).

Roystonea hispaniolana L.H. Bailey, Gentes Herb. 4: 268, figs. 171–173. 30 Nov 1939. **TYPE: DOMINICAN REPUBLIC**: La Vega: near Bonao, 3 Apr 1937, *L.H. Bailey 242*. Holotype: BH (2 sheets). NOTE: In addition to the cited type, *Bailey 242*, which is composed of flowering inflorescences, he also had at hand *Bailey 242a* which is composed of two sheets of leaves and an envelope of seeds. The latter collection is considered to be a paratype.

Roystonea jamaicana L.H. Bailey, Gentes Herb. 3: 384, figs. 219–220, 223–225. 15 Apr 1935. **LECTOTYPE** (designated by S. Zona, Fl. Neotrop. Monogr. 71: 16. 1996, as "holotype"): **JAMAICA**. St. Catherine Parish: near Ewarton, 26 Feb 1931, *L.H. Bailey 15069*. Lectotype): BH (3 sheets and 1 packet). NOTE: In addition to the lectotype Bailey also cited *L.H. Bailey 15071* (BH), a syntype, from Claremont in St. Ann Parish, Jamaica.

Roystonea peregrina L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 127, figs. 33–34. 19 Nov 1949. **TYPE: GUADELOUPE**. Basse Terre: Montebello, cultivated on the grounds of M. Adrien Questel, 24 Oct 1938, *A. Questel 51*. Holotype: BH (1 sheet and 1 box with 1 envelope).

Roystonea regia (Kunth) O.F. Cook var. ***maisiana*** L.H. Bailey, Gentes Herb. 3: 376, figs. 207, 210–211. 15 Apr 1935. **TYPE: CUBA**. Guantánamo: Los Llanos, El Beril, back of Cape Maisi, 17 Mar 1931, *L.H. Bailey 15143*. Holotype: BH (9 sheets and 1 envelope); isotypes: HAC, US.

Roystonea regia (Kunth) O.F. Cook var. ***pinguis*** L.H. Bailey, Gentes Herb. 3: 378. 15 Apr 1935. **TYPE: CUBA**. Guantánamo: banks of the Río Imías, Nov 1929, *H. Léon 14248*. Holotype: BH (2 sheets and 3 packets); isotypes: HAC, US.

Roystonea venezuelana L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 124, fig. 31. 19 Nov 1949. **TYPE: VENEZEULA**. Yaracuy: without location, 29 May 1944, *J.A. Steyermark 56852*. Holotype: BH (1 box with 1 envelope and 2 packets); isotype: F.

Sabal allenii L.H. Bailey, Gentes Herb. 6: 200, fig. 101. 4 Aug 1943. **LECTOTYPE (designated here)**: **PANAMA. Panama**. Perlas Islands, Pedro Gonzales Island, 5 Jul 1941, *P.H. Allen 2604*. Lectotype: BH (7 sheets and 1 packet); isolectotype: MO. NOTE: As reported by Bailey in 1943, he knew the plant from two Allen collections gathered in 1941. The second, a syntype, was gathered on 22 Nov 1941 (BH, 2 sheets) at the same location but assigned the same collection number (*2604*).

Sabal* × *brazoriensis D.H. Goldman, L. Lockett & Read in D.H. Goldman et al., *Phytotaxa* 27: 20. 19 Aug 2011. **TYPE: UNITED STATES. Texas**. Brazoria Co.: "Palm Unit", San Bernard National Refuge, 8 Jun 2011, *D.H. Goldman & T. Adams 4178*. Holotype: BH (1 box with 2 sheets and 1 envelope); isotypes: GH, K, NCU, NY, TEX.

Sabal bermudana L.H. Bailey, Gentes Herb. 3: 378, figs. 179, 181. 15 Apr 1935. **LECTOTYPE** (designated by S. Zona, Aliso 12: 624. 1990): **BERMUDA**. Paget Marsh near Hamilton, 19 Jan 1922, *L.H. Bailey et al. 73*. Lectotype: BH (1 sheet). NOTE: Zona proposed the above lectotype even though Bailey specifically stated that he was proposing a new name for the misapplication *Sabal blackburnia* Glazebrook (Gard. Mag. & Reg. Rural Domest. Improv. 5:

52, figs. 10–13. Feb 1829) by Hemsley (Rep. Challenger, Bot. 1: 70. Jun 1885). Bailey did not mention this collection specifically. Acceptance of the Bailey name as a new species is possible under the last clause of the second sentence of Art. 58.1 of the *Code* (McNeill 2012). As *L.H. Bailey et al. 73* was one of the original elements before Bailey at the time, the lectotypification is appropriate. Furthermore, because *S. bermudana* was proposed on 31 Dec 1934 and thus before Art. 39.1 which went into effect on 1 Jan 1935, Bailey's English description validates the name. The identity of *S. blackburnia* (often spelled "blackburniana" or "blackburnii") has long been considered to be ambiguous and *S. umbraculifera* Mart. (Hist. Nat. Palm. 3: 245. 1839) is not legitimate being a superfluous substitute for *S. blackburnia*. Because Zona adopted *S. bermudana* and considered *S. blackburnia* to be ambiguous, which is not possible under the current rules of botanical nomenclature, the Glazebrook name has been proposed for rejection by Reveal et al. (2013).

Sabal dugesii S. Watson ex L.H. Bailey, Gentes Herb. 3: 335, figs. 189–190. 15 Apr 1935. **TYPE: MEXICO. Guanajuato**. Rancho de Bustos, sin dat., *A. Dugès s.n.* Holotype: GH; isotype: BH (frag.).

Sabal etonia Swingle ex Nash, Bull. Torrey Bot. Club 23: 99. 29 Mar 1896. **TYPE: UNITED STATES. Florida**. Lake Co.: near Eustis, 16–30 Jun 1894, *G.V. Nash 999*. Holotype: NY; isotypes: BH (2 sheets and 3 packets), GH, MICH, MO, P, PH, US.

Sabal glaucescens Lodd. ex Drabble, Trans. Linn. Soc., Bot., ser. 2, 6: 462. Oct 1904. **LECTOTYPE (designated here)**: [icon] Trans. Linn. Soc., Bot., ser. 2, 6: pl. 50, fig. 61. Oct 1904. **EPITYPE (designated here): TRINIDAD AND TOBAGO**. Trinidad: St. Patrick, Quinam Bay, 28 Jan 1946, *L.H. Bailey 119*. Epitype: BH (7 sheets and 1 packet). NOTE: The above typification allows *S. glaucescens* to be applied as outlined by Moore (Gentes Herb. 9: 287. 30 Oct 1963) when he established the isonym, "*S. glaucescens* Lodd. ex H.E. Moore."

Sabal gretherae H.J. Quero, Principes 35: 219, figs. 1–6. 12 Nov 1991, as "*gretheriae*". **TYPE: MEXICO. Quintana Roo**. 4 km south of Chiquila on road to Kantunilkin, Jul 1990, *H.J. Quero 3592*. Holotype: MEXU; isotypes: BH (1 sheet and 1 envelope), CICY, NY, UAMIZ, US.

Sabal miamiensis Zona, Brittonia 37: 366. 6 Dec 1985. **TYPE: UNITED STATES. Florida**. Dade Co.: Coconut Grove, 2–5 Nov 1901, *J.K. Small & G.V. Nash s.n.* Holotype: NY; isotypes: BH (1 sheet), F, US.

Sabal morrisiana Bartlett ex L.H. Bailey, Gentes Herb. 6: 412, figs. 217–218. 21 Jul 1944. **TYPE: GUATEMALA. Petén**. Uaxactun, 22 Mar 1931, *H.H. Bartlett 12284*. Lectotype **(designated here)**: MICH; isolectotype: BH (1 envelope and 1 packet). NOTE: Bailey did not indicate where the holotype was deposited.

Sabal peregrina L.H. Bailey, Gentes Herb. 6: 400, figs. 208–209. 21 Jul 1944. **LECTOTYPE (designated here): UNITED STATES. Florida**. Monroe Co.: cultivated, Key West, 5–7 Aug 1935, *L.H. Bailey 2DH*. Lectotype: BH (5 sheets, 1 packet, and 1 box). NOTE: The syntype, *Bailey 322X*, collected in 1938 and mislabeled by Bailey as to its date, is also at BH (1 envelope). This latter collection was inadvertently designated as the lectotype by Zona (Aliso 12: 656. 1990, as "holotype"), but is here overturned as *L.H. Bailey 322X* is in "serious conflict with the protologue" (Art. 10.5 of the *Code*) as this specimen consist of only mature fruit. In addition, Zona annotated *L.H. Bailey 2DH* as a holotype.

Sabal questaliana L.H. Bailey, Gentes Herb. 6: 422, figs. 225, 226, 227. 21 Jul 1944. **LECTOTYPE (designated here): SAINT BARTHÉLEMY**. Cultivated, without an exact location, 1938, *A. Questel 468*. Lectotype: BH (2 sheets). NOTE: A syntype, collected on 13 Jan 1939, is also at BH (1 envelope). This latter collection was inadvertently designated as the lectotype by Zona (Aliso 12: 627. 1990, as "holotype"), but is here overturned as the 1939 collection is in "serious conflict with the protologue" (Art. 10.5 of the *Code*) as this number consist of only a small portion of an inflorescence mixed with flowers of a species of *Butia* whereas the 1938 collection is composed of both the leaves and inflorescences as described by Bailey.

Sabal viatoris L.H. Bailey, Gentes Herb. 6: 403, fig. 209–211. 21 Jul 1944. **LECTOTYPE (designated here)**: **UNITED STATES. California**. Los Angeles Co.: Cultivated at Huntington Botanical Garden, San Marino, 18 May 1936, *L.H. Bailey 399*. Lectotype: BH (5 sheets and 1 envelope). NOTE: The collection cited by S. Zona (Aliso 12: 646. 1990) as the lectotype, (*L.H. Bailey 9248*) is not extant, and based on records at BH, seemingly has not been extant since the 1960s if not before. Bailey (Gentes Herb. 3: 308. 1934) stated that he first saw the tree at the Huntington Gardens in 1927, and indeed his fieldbook shows that he made a collection on 1 Mar 1927. That collection was numbered 129, his yearly collection number, and subsequently assigned his sequential collection number 9248 at a later date. The fate of this collection is not known. Given that this collection is not extant, and could never have been examined by Zona, Bailey's later collection, also cited in the protologue, is now designated as the lectotype. For the record, Bailey maintained a running set of consecutive numbers up to 1930, reaching more than 12,000. After that he seems to have assigned collection numbers anew with each trip or year.

Sabal yucatanica L.H. Bailey, Gentes Herb. 6: 418, figs. 209, 223. 21 Jul 1944. **TYPE**: **MEXICO. Yucatán**. Chichen Itza, Jun–Jul 1938, *C.L. Lundell & A.A. Lundell 7368*. Lectotype, designated by S. Zona, Aliso 12: 656. 1990, as "holotype": MICH; isolectotype: BH (1 large packet, 1 small packet and 1 paper bag). NOTE: Bailey did not indicate where the holotype was deposited.

Salacca affinis Griff., Calcutta J. Nat. Hist. 5: 9. Apr 1845. **TYPE**: **MALAYSIA**. Malacca: Ching [Cheng?] near Malacca, 1842, *E. Fernandez s.n.* [=*Griffiths 421*]. Holotype: Not determined; isotype: BH (frag.). NOTE: The BH fragment was removed from material at BR received from Martius. The holotype is to be sought at BR or K.

Salacca flabellata Furtado, Gard. Bull. Singapore 12: 387, fig. 2. 7 Dec 1949. **TYPE**: **MALAYSIA**. Kemaman: Sungai Nipah, 21 Nov 1935, *E.J.H. Corner 30525*. Holotype: SING; isotypes: (BH, 1 sheet), BO, K, L, P.

Scheelea curvifrons L.H. Bailey, Gentes Herb. 7: 443, figs. 206, 209–210. 27 Dec 1947. **LECTOTYPE** (designated by S.F. Glassman, Illinois Biol. Monogr. 59: 147. 1999, as "holotype"): **TRINIDAD AND TOBAGO**. Trinidad: St. Patrick: entrance to Leasehold, 30 Jan 1946, *L.H. Bailey 124*. Lectotype: BH (5 sheets, 1 envelope, and 1 packet). NOTE: Bailey also cited *L.H. Bailey 183*, a syntype.

Scheelea fairchildensis Glassman, Illinois Biol. Monogr. 59: 163. 25 Jun 1999. **TYPE**: **UNITED STATES. Florida**. Dade Co.: Fairchild Tropical Garden, plot 117, RM-979, 17 Jul 1963, *R.W. Read 900*. Holotype: BH (5 boxes, 1 sheet, 2 envelopes, 2 plastic bags, and 1 packet); isotype: FTG.

Scheelea lundellii Bartlett, Publ. Carnegie Inst. Wash. 461(3): 46, pl. 1–5. 10 Jul 1935. **TYPE**: **GUATEMALA. Petén**. "Kantutz," "Corozo", Monte Polo, near Polol, 11 Jun 1933, *C.L. Lundell 3752*. Holotype: MICH; isotype: BH (1 sheet and 1 packet).

Scheelea moorei Glassman, Illinois Biol. Monogr. 59: 127, figs. 167, 200. 25 Jun 1999. **TYPE**: **PERU**. Leoncio Prado: Huanuco, near Naranjilla between Tingo María and Río Tulumayo, 1 May 1960, *H.E. Moore, Jr., A. Salazar & E.E. Smith 8392*. Holotype: BH (2 boxes and 2 packets); isotypes: GH, TEX, US.

Scheelea salazarii Glassman, Illinois Biol. Monogr. 59: 146, figs. 175, 201. 25 Jun 1999. **TYPE**: **PERU**. Maynas: On the banks of Río Itaya below Munichi, 17 May 1960, *H.E. Moore, Jr., A. Salazar & E.E. Smith 8478*. Holotype: BH (4 boxes, 1 envelope and 2 packets); isotypes: GH, TEX, US.

Scheelea zonensis L.H. Bailey, Gentes Herb. 3: 36, figs. 206, 20–23. 15 Mar 1933. **TYPE**: **PANAMA. Canal Zone**. Barro Colorado Island, 6 Jun 1931, *L.H. Bailey & Z. Bailey 1*. Lectotype, designated by S.F. Glassman, Illinois Biol. Monogr. 59: 141. 1999, as "holotype": BH (2 boxes, 3 small envelopes and 2 packets plus 5 sheets and 1 envelope). NOTE: Bailey

did not indicate a type collection except to note (p. 35) that the type came from Barro Colorado Island.

Seaforthia malaiana Mart., Hist. Nat. Palm. 3: 183, t. 158, f. 3. 23 Sep 1838. **SYNTYPE**: **MALAYSIA**. Malacca: Pinang Borreng, *W. Griffiths s.n.* Syntypes: BH (frag.); BR (3 sheets and a packet). If a lectotype has been designated, we have not found the reference. Based on a note by Harold Moore and associated with the two collections at BR, it seems that the packet of fragments was the source of the material now at BH and appears to be associated with the Griffith from Malacca.

Socratea salazarii H.E. Moore, Principes 7: 112, fig. 77–80. 23 Jul 1963. **TYPE**: **PERU**. Alto Amazonas: between Km 13 and 14 on the Yurimaguas-Tarapoto road, 24 May 1960, *H.E. Moore, Jr., A. Salazar & E.E. Smith 8517*. Holotype: BH (3 sheets); isotype: USM.

Syagrus archeri Glassman, Fieldiana, Bot. 31: 235. fig. 1. 24 Apr 1967. **TYPE**: **BRAZIL**. Minas Gerais: Fazenda Morro Redondo, near Lavras, 20 Sep 1936, *W.A. Archer 4048*. Holotype: A; isotype: BH (1 sheet), MO, NY, US.

Syagrus cardenasii Glassman, Fieldiana, Bot. 31: 238, figs. 2, 7A. 24 Apr 1967. **TYPE**: **BOLIVIA**. Chuquisaca: between Monteagudo and Muyupampa, May 1959, *M. Cardenas 5500*. Holotype: BH (1 sheet, 1 envelope and 1 packet); isotype: US.

Syagrus harleyi Glassman, Phytologia 39: 401. 10 Jul 1978. **TYPE**: **BRAZIL**. Bahia: Serra do Sincorá, along Rio Cumbuca, about 3 km south of Mucugé, near the site of a small dam on the road to Cascavel, 4 Feb 1974, *R.M. Harley et al. 15963*. Holotype: K; isotypes: BH (1 sheet, 1 envelope and 1 packet), F, MO, NY, US.

Syagrus mendanhensis Glassman, Fieldiana, Bot. 31: 298, figs. 12, 13. 22 Feb 1968. **TYPE**: **BRAZIL**. Minas Gerais: near Mendanha, 24 Sep 1936, *W.A. Archer 4086*. Holotype: BH (1 sheet); isotype: US.

Syagrus stenopetala Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 322. 30 Mar 1932. **TYPE**: **VENEZUELA**. Anzoategui: Puerto La Cruz, 26 Apr 1923, *A. Jahn 1208*. Holotype: VEN; isotypes: BH (frag.), US.

Synechanthus mexicanus L.H. Bailey ex H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 199, fig. 85. 19 Nov 1949. **TYPE**: **MEXICO**. **Oaxaca**. Finca La Gloria on the Rio Negro over the mountains to Rio Grande north of Niltepec, 3 Apr 1936, *E. Hernandez Xolocotzi & A.J. Sharp X-1287*. Holotype: BH (1 sheet and 1 packet).

Synechanthus panamensis H.E. Moore in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 201, fig. 86. 19 Nov 1949. **TYPE**: **PANAMA**. **Veraguas**. Cerro Tute, near Santa Fé, 25 Mar 1947, *P.H. Allen 4376*. Holotype: MO; isotype: BH (1 sheet and 2 packets).

Tahina spectabilis J. Dransf. & Rakotarin. in J. Dransfield *et al.*, Bot. J. Linn. Soc. 156: 84, figs. 1–3, 5. 17 Jan 2008. **TYPE**: **MADAGASCAR**. Mahajanga, Analalava, Antsanifera, Antsingilava, 19 Jan 2007, *Rakotoarinivo et al. RMJ337*. Holotype K; isotypes BH (1 box and 1 packet), MO, P, TAN.

Taveunia tanga H.E. Moore, Candollea 20: 98, figs. 5–7. Dec 1965. **TYPE**: **FIJI**. Viti Levu: Ra: along Vuniatambua Creek between Dromo and Vuniatambua Ridge, 4 May 1964, *H.E. Moore, Jr., & D. Koriveibau 9364*. Holotype: BH (1 box with 1 envelope and 1 sheet).

Tectiphiala ferox H.E. Moore, Gentes Herb. 11: 285, figs. 1–4. 27 Apr 1978. **TYPE**: **MAURITIUS**. Petrin Nature Reserve, by side of road to Macabé, 19 Apr 1971, *H.E. Moore Jr., L.J. Guého & R.E. Vaughan 9925*. Holotype: BH (2 boxes and 2 envelopes); isotype: MAU.

Tessmanniophoenix dianeura Burret, Notizbl. Bot. Gart. Berlin-Dahlem 11: 499. 11 Jul 1932. **TYPE**: **COLOMBIA**. Choco: Headwaters of Rio Tutunendo, east of Huibdo, 20–21 May 1931, *W.A. Archer 2199*. Holotype: US; isotypes: BH (frag.), F.

Thrinax praeceps O.F. Cook, Bull. Torrey Bot. Club 28: 536. Oct 1901. **TYPE**: **PUERTO RICO**. Mountain side along road between Utuado and Arecibo, 13 Jul 1901, *L.M. Underwood & R.F. Griggs 850*. Holotype: US; isotype: BH (3 sheets and 1 envelope).

Thrinax rigida Griseb. & H. Wendl. ex Griseb., *Cat. Pl. Cub.* 221. May–Aug 1866. **TYPE: CUBA.** Holguin: La Catalina, 1860–1864, *C. Wright 3220.* Holotype: to be sought at GOET; isotypes: BH (frag.), GH, K, MO, P, YU.

Trithrinax compacta Griseb. & H. Wendl. ex Griseb., *Cat. Pl. Cub.* 221. May–Aug 1866. **TYPE: CUBA.** Holguin: Favallon, Cayo del Rey, 1860–1864, *C. Wright 3222*. Holotype: to be sought at GOET; isotypes: BH (frag.), GH, K, MO, P, YU.

Veillonia alba H.E. Moore, Gentes Herb. 11: 301. 27 Apr 1978. **TYPE: NEW CALEDONIA.** Roches d'Ouaième, between Hienghène and Tao, 21 Jun 1971, *H.E. Moore et al. 10036.* Holotype: BH (2 boxes and 1 envelope); isotypes: NOU, P.

Veitchia macdanielsii H.E. Moore, Gentes Herb. 8: 496, figs. 140, 142. 29 Aug 1957. **TYPE: VANUATU.** Sanma: Espiritu Santo, plantation of Mr. My, 29 Dec 1949, *L.H. MacDaniels 3108*. Holotype: BH (4 sheets).

Veitchia montgomeryana H.E. Moore, Gentes Herb. 8: 492, fig. 141. 29 Aug 1957. **LECTOTYPE** (designated by S. Zona & D. Fuller, Harvard Pap. Bot. 4: 546. 29 Dec 1999): **UNITED STATES. Florida**. Dade Co.: Robert H. Montgomery Estate, Coconut Grove, Feb 1954, *H.E. Moore Jr. 6816*. Lectotype: BH (1 sheet and 1 envelope). NOTE: The syntype, *H.E. Moore Jr. 7056* (BH, 2 sheets), is retained in the type collection.

Veitchia simulans H.E. Moore, Gentes Herb. 8: 506, figs. 148. 29 Aug 1957. **TYPE: FIJI**. Taveuni: slopes of Mt. Manuka, east of Wairiki, 3–14 Aug 1953, *A.C. Smith 8158*. Holotype: BH (1 sheet and 1 envelope); isotype: US.

Veitchia vitiensis (H. Wendl.) H.E. Moore var. ***microcarpa*** H.J. Moore, Gentes Herb. 8: 518, figs. 150. 29 Aug 1957. **TYPE: FIJI**. Viti Levu: Serua, hills north of Ngaloa, in the Waininggere Creek drainage, 19 Nov–3 Dec 1953, *A.C. Smith 9198*. Holotype: BH (1 sheet and 1 envelope); isotype: US.

Veitchia vitiensis (H. Wendl.) H.E. Moore var. ***parhamiorum*** H.J. Moore, Gentes Herb. 8: 518, fig. 150. 29 Aug 1957. **TYPE: FIJI**. Viti Levu: Naitasiri, near the Colo-Suva Road about 9 miles from Suva, 17 Aug 1936, *H.B.R. Parham s.n*. Holotype: BH (1 box with 3 packets and 4 sheets).

Veitchia winin H.E. Moore, Gentes Herb. 8: 499, figs. 139, 143. 29 Aug 1957. **TYPE: VANUATU.** Malampa: Malekula Island, opposite Atchin Island, Dec 1949, *L.H. MacDaniels 3093*. Holotype: BH (4 sheets).

Voanioala gerardii J. Dransf., Kew Bull. 44: 195, figs. 1–2, pl. 1. 11 Jul 1988. **TYPE: MADAGASCAR**. Antalavia Maroantsetra: Masoala Peninsula, valley northeast of Antalavia, 17 Oct 1986, *J. Dransfield, D.N. Cooke & G. Jean JD 6389*. Holotype: K; isotypes: AAU, BH (1 box, 2 envelopes), MO, NY, P, TAN, US.

Wallichia marianniae Hodel, Palm J. 137: 8, figs. 1–4. Nov 1997. **TYPE: THAILAND**. Trang: southeast of Trang near Ton Tok Park, 3 May 1997, *D.R. Hodel & P. Vatcharakorn 1703*. Holotype: BK; isotype: BH (1 sheet and 1 envelope with a plastic bag).

Wallichia nana Griff., Calcutta J. Nat. Hist.5: 488. 1845. **TYPE: INDIA**. Without location and date, without a collector. Possible type material: BH (frag.), BR. NOTE: The fragment at BH was removed from a sheet in the Martius herbarium at BR. If indeed, as traditionally suggested, this collection is the type then it was gathered "about Gowahatty", Guwahati, Assam, India, Jul-Aug, by "*Major Jenkins*" [Francis Jenkins, 1793–1866] probably sometime from 1841–1844.

Wettinia castanea H.E. Moore & J. Dransf., Notes Roy. Bot. Gard. Edinburgh 36: 263, pl. 2. 28 Jul 1978. **TYPE: COLOMBIA**. Chocó: 8.6–8.8 km below crest of Cordillera Occidental at boundary of departments del Valle and Chocó on road from Cartago to San José del Palmar, 9 Dec 1976, *H.E. Moore Jr. & V.M. Patiño 10311*. Holotype: BH (2 boxes, 1 envelope and 2 packets); isotype: COL.

Wettinia panamensis R. Bernal, Caldasia 17: 373. 26 Mar 1995. **TYPE: PANAMA. Panamá.** Carretera El Llano-Cartí, 4–10 km north of El Llano, 11 Nov 1974, *H.E. Moore Jr. et al. 10187*. Holotype: BH (1 box and 1 small envelope).

Wettinia utilis Little, Phytologia 19: 251, fig. 17. 3 Jan 1970. **TYPE: ECUADOR**. Esmeraldas: Alto Tambo, 22 Sep 1965, *E.L. Little Jr. & R.G. Dixon 21114*. Holotype: US; isotype: BH (1 sheet and 1 envelope).

Wettinia verruculosa H.E. Moore, Principes 26: 42, figs. 1, 2, 3. 2 Feb 1982. **TYPE: ECUADOR**. Carchi: between Chical and Maldonado, 4 Dec 1979, *M.T. Madison & L. Besse 7290*. Holotype: BH (1 box); isotype: SEL.

Woodsonia scheryi L.H. Bailey, Gentes Herb. 6: 262, fig. 139. 4 Aug 1943. **TYPE: PANAMA. Chiriquí**. near San Bartolomé, Peninsula de Burica, 28 Jul–1 Aug 1940, *R.E. Woodson, Jr. & R.W. Schery 894*. Lectotype, designated by H.E. Moore Jr., Gentes Herb. 8: 243. 30 Nov 1951, as "type": BH (1 sheet and 1 envelope); isolectotype: MO. NOTE: Bailey did not designate a holotype. Unfortunately, Moore termed the BH element as the "type" and annotated the much more complete and detailed sheets at MO as "isotype."

Yuyba dakamana L.H. Bailey in B. Maguire, Bull. Torrey Bot. Club 75: 108, fig. 9. 28 Jan 1948. **TYPE: SURINAME**. Sipaliwini: bottom of Arrowhead Basin, Tafelberg, 3 Sep 1944, *B. Maguire 24614*. Holotype: BH (1 sheet); isotype: NY.

Yuyba maguirei L.H. Bailey in B. Maguire, Bull. Torrey Bot. Club 75: 106, fig. 7. 28 Jan 1948. **TYPE: SURINAME**. Sipaliwini: precipitous east-facing slopes above escarpment, south of East Ridge, Tafelberg, 29 Aug 1944, *B. Maguire 24555*. Holotype: BH (2 sheets); isotype: NY.

Yuyba schultesii L.H. Bailey in L.H. Bailey & H.E. Moore, Gentes Herb. 8: 157, figs 60. 19 Nov 1949. **TYPE: COLOMBIA**. Putumayo: Rio San Miguel ó Sucumbios, Conejo y los alredadores, en fruente de la Quebranda Conejo, 2–5 Apr 1942, *R.E. Schultes 3519*. Holotype: BH (1 sheet and 1 packet).

Yuyba stahelii L.H. Bailey in B. Maguire, Bull. Torrey Bot. Club 75: 106, fig. 8. 28 Jan 1948. **TYPE: SURINAME**. Para: Zanderij, 10 Mar 1946, *G. Stahel s.n.* Holotype: BH (3 sheets); isotype: NY.

Yuyba trinitensis L.H. Bailey, Gentes Herb. 7: 416, fig. 189. 27 Dec 1947). **LECTOTYPE** (designated by J.G. Wessels Boer, Indigen. Palms Suriname: 83. 1965, as "Type specimen": **TRINIDAD AND TOBAGO**. Trinidad: Valencia Wood, *H. Prestoe s.n.* Lectotype: TRIN. NOTE: Bailey cited three additional collections: Mona Forest, 21 Oct 1927, *Broadway 6696* (US), Sangre Grande at milepost 3.5, *R.O. Williams* (TRIN), and San Pedro Reserve, Apr 1943, *J.S. Beard 99* (BH, 2 sheets). In addition, fig. 189 was based on a fifth collection: Mora Forest, Melejo Reserve, 31 Oct 1947, *J. Carter s.n.* (BH, 3 sheets). The syntypes at BH are retained in the type collection.

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